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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: SABITA GAZI Examiner #: 74141 Date: 9/21/06  
Art Unit: 1616 Phone Number: 2-0622 Serial Number: 16/547,074  
Location (Bldg/Room#): 4A5 (Mailbox #): 4C76 Results Format Preferred (circle): PAPER DISK

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\*\*\*\*\*  
\*\*\*\*\*

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Novel dithiopyrroles with therapeutic use

Inventors (please provide full names): GENITUI CHEN et al

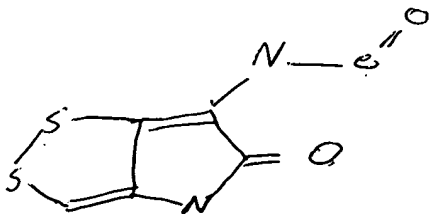
Earliest Priority Date: 3/26/2002

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

cb 1-10  
dithiopyrrole  
Please search for the compounds of  
formula



Thank you

copy of cb are attached

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Searcher: Mike

Searcher Phone #: \_\_\_\_\_

Searcher Location: \_\_\_\_\_

Date Searcher Picked Up: 9/27/06

Date Completed: 9/27/06

Searcher Prep & Review Time: 15

Online Time: 29

Type of Search

\_\_\_\_ NA Sequence (#)

\_\_\_\_ AA Sequence (#)

4 Structure (#)

✓ Bibliographic

\_\_\_\_ Litigation

\_\_\_\_ Fulltext

\_\_\_\_ Other

✓ Vendors and cost where applicable

\_\_\_\_ STN \_\_\_\_\_ Dialog

\_\_\_\_ Questel/Orbit \_\_\_\_\_ Lexis/Nexis

\_\_\_\_ Westlaw \_\_\_\_\_ WWW/Internet

\_\_\_\_ In-house sequence systems

\_\_\_\_ Commercial \_\_\_\_\_ Oligomer \_\_\_\_\_ Score/Length

\_\_\_\_ Interference \_\_\_\_\_ SPDI \_\_\_\_\_ Encode/Transl

\_\_\_\_ Other (specify)

=> b reg

FILE 'REGISTRY' ENTERED AT 10:32:02 ON 27 SEP 2006

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STRUCTURE FILE UPDATES: 26 SEP 2006 HIGHEST RN 908803-03-2

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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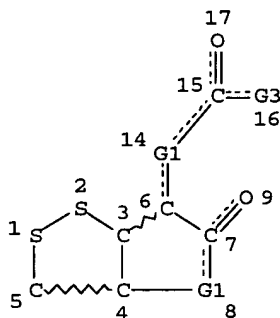
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d que sta l16

L6 STR

N==G2 Ak==Cy  
@10 11 @12 13



VAR G1=NH/10

VAR G2=AK/CY/12

VAR G3=AK/CY

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

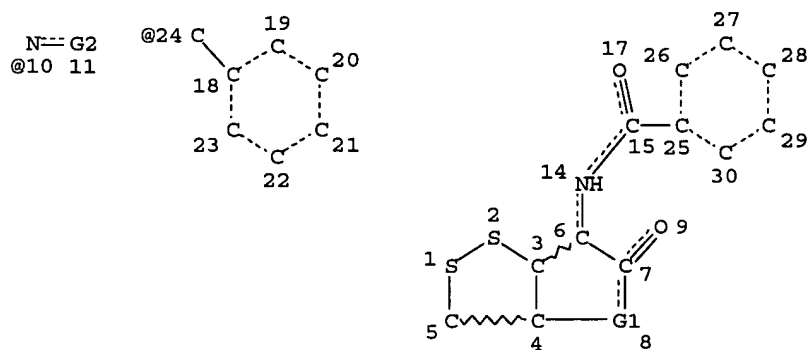
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NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE

L8 215 SEA FILE=REGISTRY SSS FUL L6

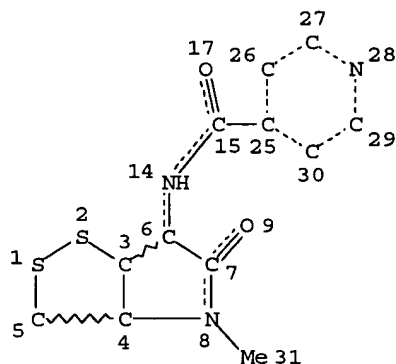
L10 STR



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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 27

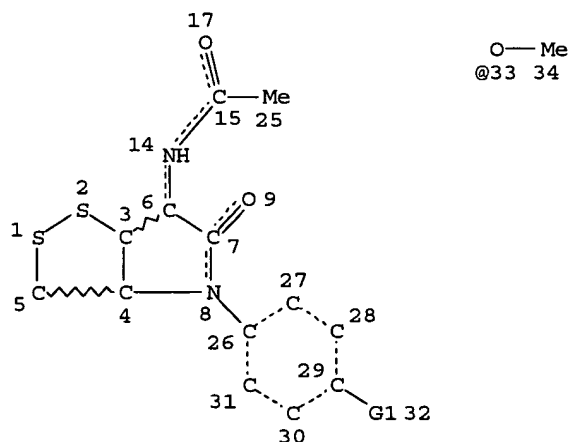
STEREO ATTRIBUTES: NONE  
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DEFAULT ECLEVEL IS LIMITED

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STEREO ATTRIBUTES: NONE  
L12 STR



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 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
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 NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE  
 L15 3 SEA FILE=REGISTRY SUB=L8 CSS FUL (L10 OR L11 OR L12)  
 L16 212 SEA FILE=REGISTRY ABB=ON PLU=ON L8 NOT L15

=> b hcap  
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FILE COVERS 1907 - 27 Sep 2006 VOL 145 ISS 14  
 FILE LAST UPDATED: 26 Sep 2006 (20060926/ED)

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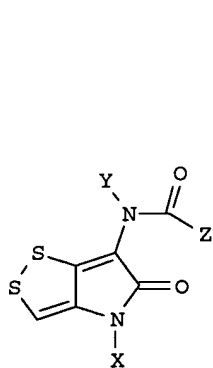
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs hitrn fhitrstr retable tot l28

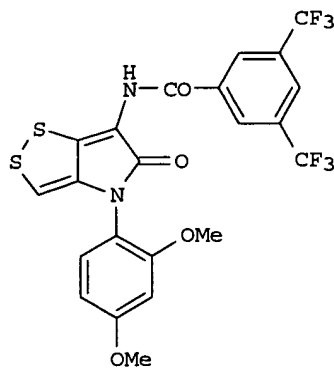
L28 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2003:777806 HCAPLUS  
 DN 139:292253  
 TI Preparation of novel dithiolopyrrolones with therapeutic activity against proliferative diseases

IN Chen, Genhui; Li, Bin; Li, Jianxiong;  
 Webster, John  
 PA Welichem Biotech Inc., Can.  
 SO PCT Int. Appl., 33 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO2003080624	A2	20031002	2003WO-CA00380	20030318 <--
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA---2479341	AA	20031002	2003CA-2479341	20030318 <--
	AU2003209899	A1	20031008	2003AU-0209899	20030318 <--
	EP---1490374	A2	20041229	2003EP-0744744	20030318 <--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
	CN---1642959	A	20050720	2003CN-0806882	20030318 <--
	JP2005526803	T2	20050908	2003JP-0578378	20030318 <--
	US2006074125	A1	20060406	2005US-0509074	20051014 <--
PRAI	2002US-367265P	P	20020326	<--	
	2002US-418698P	P	20021017		
	2003WO-CA00380	W	20030318	<--	
OS	MARPAT 139:292253				
GI					



I



II

AB The present invention provides novel dithiolopyrrolone compds. (I) [X and Y can be the same or different, are hydrogen, substituted or unsubstituted alkyl, cycloalkyl, aryl, aralkyl or heterocyclic group except the compds. with: Z = Ph, Y = H, X = H, Me or benzyl, and Z = 4-pyridine, X = Me, Y = H; or When X = aryl, heterocyclic, Y and Z, can be the same or different, are hydrogen, unsubstituted or substituted or alkyl of two or less hydroxy groups and no carboxylic acid group, cycloalkyl, aryl, aralkyl or heterocyclic group, except the compds. with: Z = Me, Y = H, X = Ph, 4-methoxyphenyl, 4-methylphenyl] and their salts, which are useful as treatments for cancer and other proliferative diseases. The present invention also provides therapeutic compns. comprising particularly useful types of dithiolopyrrolones, the salts thereof, and methods of using the

compds. within such types, particularly in treating proliferative diseases such as cancer. For example, 1,2-dithiolo[4,3-b]pyrrol-5(4H)-one derivative (II) in vitro showed IC50 of  $\leq 0.01$ , 0.13, 0.016, 0.14, 0.014, 0.03, 0.04, 0.013, and 0.013  $\mu\text{M}$  against leukemia CCRF-CEM, non-small cell lung cancer, colon cancer HCT-116, CNS cancer 0.14, melanoma LOXIMVI, ovarian cancer OVCAR-3, renal cancer RXF 393, prostate cancer DU-145, and breast cancer T-47D, resp.

IT 104902-48-9P 104902-62-7P 608131-31-3P  
 608131-47-1P 608131-48-2P 608131-49-3P  
 608131-50-6P 608131-51-7P 608131-53-9P  
 608131-54-0P 608131-55-1P 608131-56-2P  
 608131-57-3P 608131-58-4P 608131-59-5P  
 608131-60-8P 608131-61-9P 608131-62-0P  
 608131-63-1P 608131-64-2P 608131-65-3P  
 608131-66-4P 608131-67-5P 608131-68-6P  
 608131-69-7P 608131-70-0P 608131-71-1P  
 608131-72-2P 608131-73-3P 608131-74-4P  
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 608131-78-8P 608131-79-9P 608131-80-2P  
 608131-81-3P 608131-82-4P 608131-83-5P  
 608131-84-6P 608131-85-7P 608131-86-8P  
 608131-87-9P 608131-88-0P 608131-89-1P  
 608131-90-4P 608131-95-9P 608131-96-0P  
 608131-97-1P 608131-98-2P 608132-80-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of novel dithiolopyrrolones with therapeutic activity against proliferative diseases such as cancer)

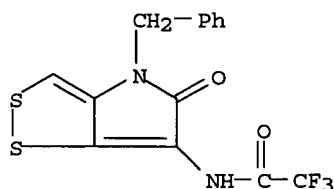
IT 104902-48-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of novel dithiolopyrrolones with therapeutic activity against proliferative diseases such as cancer)

RN 104902-48-9 HCAPLUS

CN Acetamide, N-[4,5-dihydro-5-oxo-4-(phenylmethyl)-1,2-dithiolo[4,3-b]pyrrol-6-yl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



L28 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:83116 HCAPLUS

DN 132:93329

TI Anticancer properties of 6-amino-5-oxo-1,2-dithiolo[4,3-b]pyrroles

IN Webster, John M.; Li, Jianxiong; Chen, Genhui

PA USA

SO U.S., 4 pp.

CODEN: USXXAM

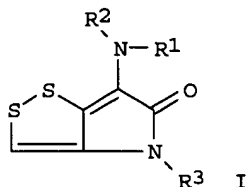
DT Patent

LA English

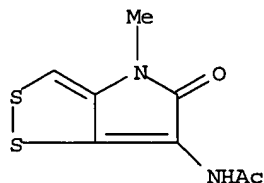
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US---6020360	A	20000201	1996US-0716593	19960918
PRAI	1996US-0716593		19960918		
OS	MARPAT 132:93329				

GI



- AB The title compds. [I; R1, R3 hydrogen, alkyl, cycloalkyl, aralkyl, aryl, heterocyclyl; R2 = hydrogen, (un)substituted alkyl, cycloalkyl, acyl, aryl, aralkyl, heterocyclyl] [e.g., N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)hexanoamide] are useful as in the treatment of cancers (i.e., colon cancer, cervical cancer, breast cancer, etc).
- IT 87-11-6 92680-90-5 92680-92-7  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (anticancer properties of 6-amino-5-oxo-1,2-dithiolo[4,3-b]pyrroles)
- IT 87-11-6  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (anticancer properties of 6-amino-5-oxo-1,2-dithiolo[4,3-b]pyrroles)
- RN 87-11-6 HCAPLUS
- CN Acetamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (8CI, 9CI) (CA INDEX NAME)



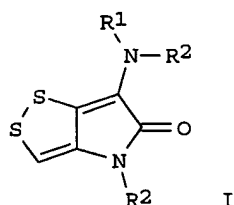
## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Arnold, J	1995	55	537	Cancer Research	HCAPLUS
Celmer, W	1955	77	2861	J Amer Chem Soc	HCAPLUS
Eisenman, W	1953	3	385	Antibiotics and Chem	HCAPLUS
Forst, S	1996	60	21	Microbiol Rev	HCAPLUS
Hagio, K	1974	47	1484	Bull Chem Soc Japan	HCAPLUS
Jimenez, A	1973		729	Antimicrob Ag Chemot	HCAPLUS
Li, J	1995	58	1081	J Nat Prod	HCAPLUS
Mehta	1991	11	593	Anticancer Res	HCAPLUS
Menta, R	1991	11	593	Anticancer Research	
Moinerney, B	1991	54	774	J Nat Prod	
Ninomiya, Y	1980	28	3157	Chem Pharm Bull	HCAPLUS
Sharma, S	1994	54	5848	Cancer Research	HCAPLUS
Skehan, P	1990	82	1107	J Natl Cancer Inst	HCAPLUS
Stachel, H	1992		473	Liebigs Ann Chem, (A	HCAPLUS
Tipper, D	1973	116	245	J Bacteriol	HCAPLUS
Umezawa, H	1948	1	512	Jap Med J	HCAPLUS
Von Daehne, W	1969	22	233	J Antibiotics	HCAPLUS

L28 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1999:193997 HCAPLUS

DN 130:232473  
 TI Dithiolopyrrolones and their corresponding monoxides and dioxides as  
 antineoplastic agents from *Xenorhabdus bovienii*  
 IN Webster, John Malcolm; Li, Jianxiong; Chen,  
 Genhui  
 PA Can.  
 SO PCT Int. Appl., 27 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO---9912543	A1	19990318	1998WO-CA00841	19980903
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	AU---9890570	A1	19990329	1998AU-0090570	19980903
	AU---759990	B2	20030501		
	EP---1009401	A1	20000621	1998EP-0942414	19980903
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	US---6583171	B1	20030624	2000US-0519871	20000306
	CN---1360891	A	20020731	2001CN-0131401	20010906
PRAI	1997CA-2212237	A	19970905		
	1996US-0627589	B1	19960404		
	1997US-0921851	B1	19970902		
	1998WO-CA00841	W	19980903		
OS	MARPAT 130:232473				
GI					



AB Compds. I [R1 = H, (un)substituted alkyl, cycloalkyl, aryl, aralkyl, heterocyclyl; R2 = H, (un)substituted alkyl, cycloalkyl, aryl, aralkyl, heterocyclyl; R3 = H, alkyl, cycloalkyl, aralkyl, aryl, heterocyclyl group; or either of the S may have O or O2 attached], isolated from the bacteria *Xenorhabdus bovienii*, or the salts thereof, have antineoplastic activity. The invention provides pharmaceutical compns. containing the compds. and the methods for employing them as medicaments, particularly in the treatment of human and animal cancers. Xenorxides 1 and 2 and xenomins 1 and 2 were prepared from *X. bovienii* fermentation and purified. All the compds. exhibited very strong anticancer activity against cancer cells.

IT 92680-92-7 92680-93-8

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)  
 (dithiolopyrrolones and their corresponding monoxides and dioxides as



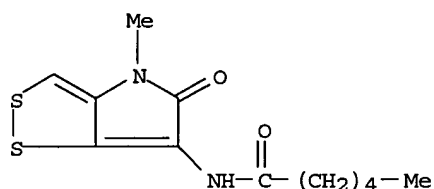
antineoplastic agents from *Xenorhabdus bovienii*)

IT 87-11-6, Thiolutin  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (dithiolopyrrolones and their corresponding monoxides and dioxides as antineoplastic agents from *Xenorhabdus bovienii*)

IT 92680-92-7  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)  
 (dithiolopyrrolones and their corresponding monoxides and dioxides as antineoplastic agents from *Xenorhabdus bovienii*)

RN 92680-92-7 HCAPLUS

CN Hexanamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-(9CI) (CA INDEX NAME)



## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Biotech Australia Pty L	1984			WO---8401775 A	HCAPLUS
Malcolm, W	1996			WO---9632396 A	HCAPLUS
Sharma, S	1994	54	5848	CANCER RESEARCH	HCAPLUS

L28 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1995:773532 HCAPLUS

DN 123:193172

TI Antimicrobial metabolites from a bacterial symbiont

AU Li, Jianxiong; Chen, Genhui; Webster, John M.

; Czyzewska, Eva

CS Dep. Biol. Sciences, Simon Fraser Univ., Burnaby, Vancouver, BC, V5A 1S6, Can.

SO Journal of Natural Products (1995), 58(7), 1081-6

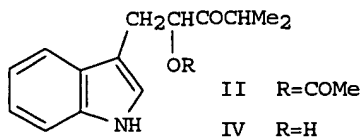
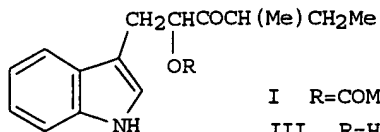
CODEN: JNPRDF; ISSN: 0163-3864

PB American Society of Pharmacognosy

DT Journal

LA English

GI



AB Two types of antibiotics, namely, indoles and dithiolopyrrolones, have been isolated and identified from *Xenorhabdus bovienii* A2. Compds. I and II showed strong activity against *Cryptococcus neoformans*, compds. III and IV showed strong activity against *Botrytis cinerea*, and compds. I, III, and IV showed significant activity against *Phytophthora infestans* (II was not tested). In addition, two lower homologues of xenorhabdins, namely,

6-(N-3'-methylbutanamido)-4,5-dihydro-1,2-dithiolo[4,3-b]pyrrol-5-one and 6-(N-butanamido)4,5-dihydro-1,2-dithiolo[4,3-b]pyrrol-5-one, have been isolated and characterized for the first time.

IT 92680-92-7P 92680-93-8P 112843-01-3P  
167559-98-0P

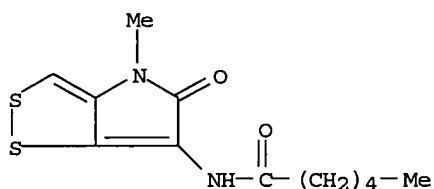
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)  
(antimicrobial metabolites from a bacterial symbiont)

IT 92680-92-7P

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)  
(antimicrobial metabolites from a bacterial symbiont)

RN 92680-92-7 HCAPLUS

CN Hexanamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-(9CI) (CA INDEX NAME)



=> d bib abs hitstr retable tot 139

L39 ANSWER 1 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:69873 HCAPLUS

DN 138:401704

TI Fused 1,2-dithioles, part VI. Synthesis and reactions of new dithiolopyrroles

AU Stachel, Hans-Dietrich; Eckl, Eduard; Immerz-Winkler, Elisabeth; Kreiner, Christine; Weigand, Wolfgang; Robl, Christian; Wunsch, Ralf; Dick, Stefan; Drescher, Norbert

CS Department Pharmazie/Zentrum fur Pharmaforschung, Universitat Munchen, Munchen, D-81377, Germany

SO Helvetica Chimica Acta (2002), 85(12), 4453-4467

CODEN: HCACAV; ISSN: 0018-019X

PB Verlag Helvetica Chimica Acta

DT Journal

LA English

OS CASREACT 138:401704

AB The title compds. were prepared starting from pyrrolinone.

Nucleophilic-displacement and ring-closure reactions yielded the dithiolopyrrole (I), which formed salts with electrophiles as well as with bases. The crystal structure of I was determined. Oxidation of the dithioles I and other related compound led to S(2)-oxides, thiosulfinate (II) and other related compound, and the corresponding S(2)-dioxides (III) and another oxide compound. II was converted by a ring-opening/ring-closure reaction sequence to the bicyclic sulfinamide. The oxidative addition reactions of [Pt( $\eta$ 2-C<sub>2</sub>H<sub>4</sub>)(PPh<sub>3</sub>)<sub>2</sub>] (IV) with the disulfides led to the corresponding dithiolatoplatinum(II) complexes. The structure of one of these complexes was characterized. The sulfenato-thiolato complex was synthesized via reaction of IV with II. The thiosulfonato Pt(II) complex (V) was prepared by an oxidative insertion of Pt<sup>0</sup> into the C-S bond of the corresponding thiosulfonate III. Furthermore, V was characterized by single-crystal X-ray-diffraction studies.

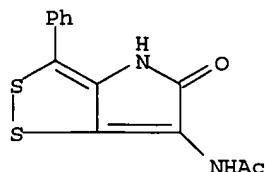
IT 528881-05-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of dithiolopyrroles via nucleophilic-displacement and ring-closure reactions and their oxidative addition with bis(triphenylphosphine) (ethylene)platinum)

RN 528881-05-2 HCAPLUS

CN Acetamide, N-(4,5-dihydro-5-oxo-3-phenyl-1,2-dithiolo[4,3-b]pyrrol-6-yl)-(9CI) (CA INDEX NAME)



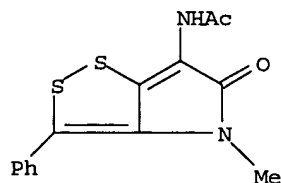
IT 528881-12-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of dithiolopyrroles via nucleophilic-displacement and ring-closure reactions and their oxidative addition with bis(triphenylphosphine) (ethylene)platinum)

RN 528881-12-1 HCAPLUS

CN Acetamide, N-(4,5-dihydro-4-methyl-5-oxo-3-phenyl-1,2-dithiolo[4,3-b]pyrrol-6-yl)-(9CI) (CA INDEX NAME)



# RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Barrilier, D	1980	8	79	Phosphorus Sulfur Re	
Block, E	1973	95	5046	J Am Chem Soc	HCAPLUS
Bock, H	1994	91	53	Phosphorus, Sulfur S	HCAPLUS
Boyd, G	1965	6	1421	Tetrahedron Lett	
Celmer, W	1955	77	2861	J Am Chem Soc	HCAPLUS
Effenberger, F	1993	105	742	Angew Chem	HCAPLUS
El-Khateeb, M	2000	612	14	J Organomet Chem	HCAPLUS
El-Khateeb, M	2001	622	293	J Organomet Chem	HCAPLUS
Ettlinger, L	1959	42	563	Helv Chim Acta	HCAPLUS
Folkin, P	1991	113	8998	J Am Chem Soc	
Folkin, P	1993	115	3066	J Am Chem Soc	
Freeman, F	1984	84	117	Chem Rev	HCAPLUS
Gompper, R	1960	93	187	Chem Ber	HCAPLUS
Gompper, R	1960	93	198	Chem Ber	HCAPLUS
Hafner, K	1985	26	189	Tetrahedron Lett	HCAPLUS
Hamilton, S	1984				HCAPLUS
Hartke, K	1974	107	739	Chem Ber	HCAPLUS
Hernandez, M	2001	20	4061	Organometallics	HCAPLUS
Hotoda, H	2001			WO2001014399	HCAPLUS
Immerz-Winkler, E	1981			Ph D thesis, Univers	
Kice, J	1973	95	109	J Am Chem Soc	HCAPLUS
Mayer, R	1957	69	481	Angew Chem	HCAPLUS
Nagel, U	1982	115	1998	Chem Ber	HCAPLUS
Oae, S	1980	21	3213	Tetrahedron Lett	HCAPLUS

Oae, S	1985		1	` Organic Sulfur Che	HCAPLUS
Page, P	1992	48	5933	Tetrahedron	HCAPLUS
Page, P	1988	29	4477	Tetrahedron Lett	HCAPLUS
Perrone, E	1986	51	3413	J Org Chem	HCAPLUS
Rakitin, O	1996	61	9178	J Org Chem	HCAPLUS
Reichardt, C	1979	18	98	Angew Chem, Int Ed	
Reichardt, C	1988			` Solvents and Solve	
Savage, W	1964	5	3289	Tetrahedron Lett	
Schachtner, J	1999	36	161	J Heterocycl Chem	HCAPLUS
Schachtner, J	1999	54	335	Pharmazie	HCAPLUS
Shaver, A	1996	35	6356	Inorg Chem	HCAPLUS
Shaver, A	1991	113	7780	J Am Chem Soc	HCAPLUS
Shiozawa, H	1997	50	449	J Antibiot	HCAPLUS
Stachel, H	1985	318	311	Arch Pharm (Weinheim	HCAPLUS
Stachel, H	1997	62	510	Collect Czech, Chem	HCAPLUS
Stachel, H	1992		473	Liebigs Ann Chem	HCAPLUS
Timpe, H	1983	33	185	` Advances in Hetero	HCAPLUS
Webster, J	1998			US---5827872	HCAPLUS
Webster, J	2000			US---6020360	HCAPLUS
Weigand, W	1992	125	1047	Chem Ber	HCAPLUS
Weigand, W	1996	129	1409	Chem Ber	HCAPLUS
Weigand, W	1994	49	513	Z Naturforsch, B	HCAPLUS
Wunsch, R	2001	621	352	J Organomet Chem	HCAPLUS
Wunsch, R	1995			Ph D thesis, Univ Mu	

L39 ANSWER 2 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:897441 HCAPLUS

DN 138:253753

TI Mutants of *Streptomyces clavuligerus* with disruptions in different genes for clavulanic acid biosynthesis produce large amounts of holomycin: possible cross-regulation of two unrelated secondary metabolic pathways

AU De la Fuente, Alvaro; Lorenzana, Luis M.; Martin, Juan F.; Liras, Paloma

CS Area de Microbiologia, Facultad de Ciencias Biologicas y Ambientales, Universidad de Leon, Leon, 24071, Spain

SO Journal of Bacteriology (2002), 184(23), 6559-6565

CODEN: JOBAA; ISSN: 0021-9193

PB American Society for Microbiology

DT Journal

LA English

AB A *Streptomyces clavuligerus* ccaR::aph strain, which has a disruption in the regulatory gene ccaR, does not produce cephamycin C or clavulanic acid, but does produce a bioactive compound that was identified as holomycin by high-performance liquid chromatog. (HPLC) and IR and mass spectrometry. *S. clavuligerus* strains with disruptions in different genes of the clavulanic acid pathway fall into three groups with respect to holomycin biosynthesis. (i) Mutants with mutations in the early steps of the pathway blocked in the gene ceaS (pyc) (encoding carboxyethylarginine synthase), bls (encoding a  $\beta$ -lactam synthetase), or open reading frame 6 (ORF6; coding for an acetyltransferase of unknown function) are holomycin nonproducers. (ii) Mutants blocked in the regulatory gene ccaR or claR or blocked in the last gene of the pathway encoding clavulanic acid reductase (car) produce holomycin at higher levels than the wild-type strain. (iii) Mutants with disruption in cyp (coding for cytochrome P 450), ORF12, and ORF15, genes that appear to be involved in the conversion of clavaminic acid into clavaldehyde or in secretion steps, produce up to 250-fold as much holomycin as the wild-type strain. An assay for holomycin synthetase was developed. This enzyme forms holomycin from holothin by using acetyl CoA as an acetyl group donor. The holomycin synthase activities in the different clavulanic acid mutants correlate well with their production of holomycin.

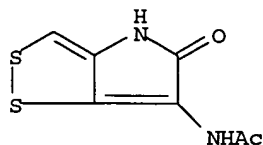
IT 488-04-0P, Holomycin

RL: BPN (Biosynthetic preparation); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)  
(holomycin biosynthesis by *Streptomyces clavuligerus* mutants)

RN 488-04-0 HCAPLUS

CN Acetamide, N-(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (8CI,

9CI) (CA INDEX NAME)



## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Alexander, D	2000	182	348	J Bacteriol	HCAPLUS
Bachmann, B	1998	95	9082	Proc Natl Acad Sci U	HCAPLUS
Baggaley, K	1997	140	309	Nat Prod Rep	
Bentley, S	2002	417	141	Nature	
Bird, A	1982	107	1241	Analyst	HCAPLUS
Chary, V	1997	63	2977	Appl Environ Microbi	HCAPLUS
de la Fuente, A	2002			PhD thesis, Universi	
Ellis, J	1977	42	2891	J Org Chem	HCAPLUS
Gaeumann, E	1961			US-3.014.922	HCAPLUS
Kenig, M	1979	32	549	J Antibiot	HCAPLUS
Kershaw, N	2002	269	2052	Eur J Biochem	HCAPLUS
Khaleeli, N	1999	121	9223	J Am Chem Soc	HCAPLUS
Kieser, T	2000			Practical Streptomyc	
Li, R	2000	182	4087	J Bacteriol	HCAPLUS
Liras, P	2000	54	467	Appl Microbiol Biote	HCAPLUS
Lorenzana, L	2002			PhD thesis, Universi	
Mellado, E	2002	148	1427	Microbiology	HCAPLUS
Mosher, R	1999	43	1215	Antimicrob Agents Ch	HCAPLUS
Nicholson, N	1994	1994	1281	J Chem Soc Chem Comm	
Okamura, K	1977	30	334	J Antibiot	HCAPLUS
Okanishi, M	1979		134	Genetics of industri	HCAPLUS
Omura, S	2001	98	12215	Proc Natl Acad Sci U	HCAPLUS
Paradkar, A	1995	177	1307	J Bacteriol	HCAPLUS
Paradkar, A	1998	27	831	Mol Microbiol	HCAPLUS
Perez-Llarena, F	1997	179	2053	J Bacteriol	HCAPLUS
Perez-Redondo, R	1998	211	311	Gene	HCAPLUS
Perez-Redondo, R	1999	181	6922	J Bacteriol	HCAPLUS
Rodriguez-Garcia, A	2000	2	543	Mol Microbiol Biotec	HCAPLUS
Romero, J	1986	52	892	Appl Environ Microbi	HCAPLUS
Romero, J	1984	20	318	Appl Microbiol Biote	HCAPLUS
Sambrook, J	1989			Molecular cloning: a	
Santamarta, I	2002	184	3106	J Bacteriol	HCAPLUS
Webster, J	2000			US---6020360	HCAPLUS

L39 ANSWER 3 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:693119 HCAPLUS

DN 137:222003

TI Use of thiolutin dioxide and its derivatives for the treatment of CNS disorders and a process for the preparation thereof

IN Eder, Claudia; Kurz, Michael; Wink, Joachim

PA Aventis Pharma Deutschland GmbH, Germany

SO Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

DT Patent

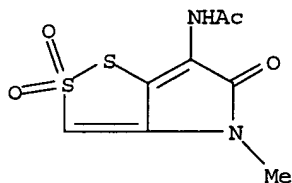
LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP---1238668	A1	20020911	2001EP-0105959	20010309 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

CA---2439853 AA 20020919 2002CA-2439853 20020223 <--  
 WO2002072089 A2 20020919 2002WO-EP01915 20020223 <--  
 WO2002072089 A3 20021114  
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
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 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,  
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,  
 UA, UG, UZ, VN, YU, ZA, ZM, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,  
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
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 EE-200300430 A 20031215 2003EE-0000430 20020223 <--  
 EP---1372640 A2 20040102 2002EP-0719902 20020223 <--  
 EP---1372640 B1 20060719  
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 CN---1501800 A 20040602 2002CN-0807949 20020223 <--  
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 AT---333276 E 20060815 2002AT-0719902 20020223 <--  
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 ZA2003006474 A 20040429 2003ZA-0006474 20030820 <--  
 NO2003003964 A 20030908 2003NO-0003964 20030908 <--  
 BG---108161 A 20040930 2003BG-0108161 20030908 <--  
 US2005059725 A1 20050317 2004US-0973309 20041026 <--  
 PRAI 2001EP-0105959 A 20010309 <--  
 2002WO-EP01915 W 20020223 <--  
 2002US-0092882 A1 20020308 <--  
 OS MARPAT 137:222003  
 AB The present invention relates to the use of thiolutin dioxide (I) and its  
 derivs. in the manufacture of a medicament for the treatment of CNS disorders,  
 to a process for the production thereof by fermentation of the microorganism  
 Nocardiosis species ST 100692, DSM 13834 , and to the micro-organism  
 Nocardiosis species ST 100692, DSM 13834. Above microorganisms were  
 cultured to obtain I. The IC 50 of I as neurolysin inhibitor was 0.6 M.  
 IT 224171-21-5  
 RL: FMU (Formation, unclassified); NPO (Natural product occurrence); PAC  
 (Pharmacological activity); THU (Therapeutic use); BIOL (Biological  
 study); FORM (Formation, nonpreparative); OCCU (Occurrence); USES (Uses)  
 (use of thiolutin dioxide and its derivs. for treatment of CNS  
 disorders and process for preparation thereof)  
 RN 224171-21-5 HCAPLUS  
 CN Acetamide, N-(4,5-dihydro-4-methyl-2,2-dioxido-5-oxo-1,2-dithiolo[4,3-  
 b]pyrrol-6-yl)- (9CI) (CA INDEX NAME)

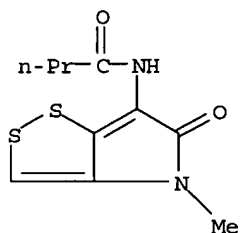


## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Chen, G	1999			WO---9912543 A	HCAPLUS
Malcolm, W	1996			WO---9632396 A	HCAPLUS

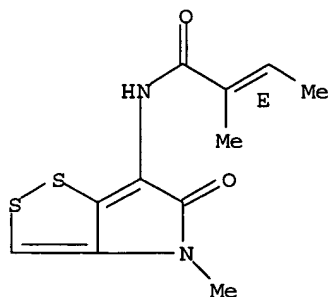
L39 ANSWER 4 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2002:674513 HCAPLUS

DN 138:88690  
 TI New dithiolopyrrolone antibiotics from *Saccharothrix* sp. SA 233. II. Physicochemical properties and structure elucidation  
 AU Lamari, Lynda; Zitouni, Abdelghani; Dob, Tahar; Sabaou, Nasseridine; Lebrihi, Ahmed; Germain, Pierre; Seguin, Elisabeth; Tillequin, Francois  
 CS Laboratoire de Recherche sur les produits Bioactifs et la Valorisation de la Biomasse, Ecole Normale Supérieure de Kouba, Algiers, 16 050, Algeria  
 SO Journal of Antibiotics (2002), 55(8), 702-706  
 CODEN: JANTAJ; ISSN: 0021-8820  
 PB Japan Antibiotics Research Association  
 DT Journal  
 LA English  
 AB Three new natural dithiolopyrrolone antibiotics, 3-methyl-2-butenoylpyrrothine (1), tigloylpyrrothine (2), and n-butyropyrrrothine (3) were isolated along with the known iso-butyropyrrrothine (4) and thiolutin (5) from the fermentation broth of *Saccharothrix* sp. SA 233. The structures of the novel compds. were established on the basis on their spectral data.  
 IT 112843-01-3P 482656-55-3P  
 RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)  
 (dithiolopyrrolone antibiotics from *Saccharothrix* fermentation)  
 RN 112843-01-3 HCAPLUS  
 CN Butanamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-(9CI) (CA INDEX NAME)

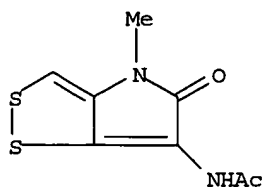


RN 482656-55-3 HCAPLUS  
 CN 2-Butenamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-2-methyl-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

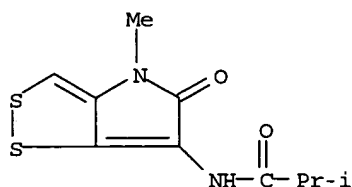


IT 87-11-6P, Thiolutin 39859-18-2P  
 RL: BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)  
 (dithiolopyrrolone antibiotics from *Saccharothrix* fermentation)  
 RN 87-11-6 HCAPLUS  
 CN Acetamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-(8CI, 9CI) (CA INDEX NAME)



RN 39859-18-2 HCAPLUS

CN Propanamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-2-methyl- (9CI) (CA INDEX NAME)

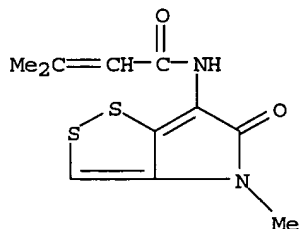


IT 482656-54-2P

RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)  
(of dithiolopyrrolone antibiotics from Saccharothrix fermentation)

RN 482656-54-2 HCAPLUS

CN 2-Butenamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-3-methyl- (9CI) (CA INDEX NAME)



## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Bhate, D	1960	16	504	Experimentia	HCAPLUS
Celmer, W	1953-	1953-	622	Antibiotics Annual	
Celmer, W	1952	74	6304	J Am Chem Soc	HCAPLUS
Celmer, W	1955	77	2861	J Am Chem Soc	HCAPLUS
Dell, I	1992		384	A C S Symposium Seri	HCAPLUS
Ettlinger, L	1959	42	563	Helv Chim Acta	HCAPLUS
Hacene, H	1994	79	81	Microbios	HCAPLUS
Lamari, L	2002	55	696	J Antibiotics	HCAPLUS
McIverney, B	1991	54	774	J Nat Prod	
Sabaou, N	1992	38	357	Can J Microbiol	
Von Daehne, W	1969	22	233	J Antibiotics	HCAPLUS

L39 ANSWER 5 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:674510 HCAPLUS

DN 138:86345

TI New dithiolopyrrolone antibiotics from Saccharothrix sp. SA 233. I.  
Taxonomy, fermentation, isolation and biological activities



AU Lamari, Lynda; Zitouni, Abdelghani; Boudjella, Hadjira; Badji, Boubekeur; Sabaou, Nasseridine; Lebrihi, Ahmed; Lefebvre, Gerard; Seguin, Elisabeth; Tillequin, Francois

CS Laboratoire de Recherche sur les Produits Bioactifs et la Valorisation de la Biomasse, Ecole Normale Supérieure de Kouba, Algiers, 16 050, Algeria

SO Journal of Antibiotics (2002), 55(8), 696-701  
CODEN: JANTAJ; ISSN: 0021-8820

PB Japan Antibiotics Research Association

DT Journal

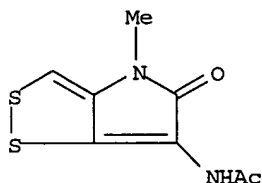
LA English

AB Three new natural antibacterial and antifungal dithiolopyrrolone antibiotics were isolated along with the known iso-butyropyrrothine and thiolutine from the fermentation broth of an actinomycete strain which was isolated from a saharian palm grove soil collected at Adrar, south Algeria. The strain was identified as *Saccharothrix* sp. The three new antibiotics exhibited broad antimicrobial activity against Gram-pos. bacteria, yeasts and fungi in vitro.

IT 87-11-6P, Thiolutin 112843-01-3P 482656-54-2P 482656-55-3P  
RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)  
(antibacterial and antifungal activity of dithiolopyrrolone antibiotics from *Saccharothrix* fermentation)

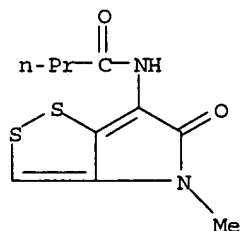
RN 87-11-6 HCAPLUS

CN Acetamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-(8CI, 9CI) (CA INDEX NAME)



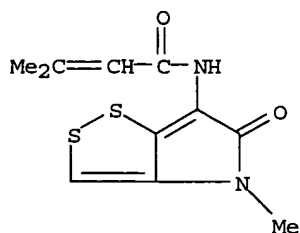
RN 112843-01-3 HCAPLUS

CN Butanamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-(9CI) (CA INDEX NAME)



RN 482656-54-2 HCAPLUS

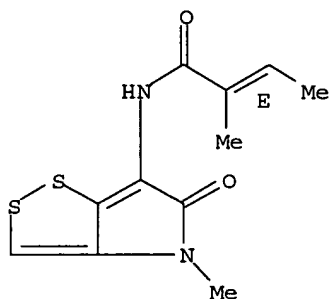
CN 2-Butenamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-3-methyl- (9CI) (CA INDEX NAME)



RN 482656-55-3 HCAPLUS

CN 2-Butenamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-2-methyl-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

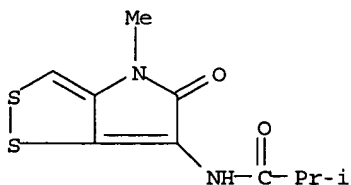


IT 39859-18-2P

RL: BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation) (antibacterial and antifungal activity of dithiolopyrrolone antibiotics from *Saccharothrix* fermentation)

RN 39859-18-2 HCAPLUS

CN Propanamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-2-methyl- (9CI) (CA INDEX NAME)



# RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Becker, B	1964	12	421	Appl Microbiol	MEDLINE
Bhate, D	1960	16	504	Experimentia	HCAPLUS
Furumai, T	1982	35	1367	J Antibiotics	HCAPLUS
Goodfellow, M	1971	69	33	J Gen Microbiol	MEDLINE
Hacene, H	1994	79	81	Microbios	HCAPLUS
Hayakawa, M	1984	65	501	J Ferment Technol	
Kroppenstedt, R	1992		1139	The Procaryotes	
Labeda, D	1984	34	426	Int J Syst Bacteriol	
Lamari, L	2002	55	702	J Antibiotics	HCAPLUS
Lechevalier, M	1970		311	The Actinomycetales	
Minnikin, D	1977	27	104	Int J Syst Bacteriol	HCAPLUS

Minnikin, D	1980	188	221	J Chromatography	HCAPLUS
Sabaou, N	1992	38	357	Can J Microbiol	
Shirling, E	1966	16	313	Int J Syst Bacteriol	
Waksman, S	1961	II		The Actinomycetes	
Yamagishi, S	1971	91	351	Yakugaku Zasshi	HCAPLUS

L39 ANSWER 6 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:529323 HCAPLUS

DN 136:256811

TI Thiolutin, an inhibitor of HUVEC adhesion to vitronectin, reduces paxillin in HUVECS and suppresses tumor cell-induced angiogenesis

AU Minamiguchi, Kazuhisa; Kumagai, Hiroyuki; Masuda, Tohru; Kawada, Manabu; Ishizuka, Masaaki; Takeuchi, Tomio

CS Institute for Chemotherapy, M.C.R.F., Shizuoka, 410-0301, Japan

SO International Journal of Cancer (2001), 93(3), 307-316

CODEN: IJCNAW; ISSN: 0020-7136

PB Wiley-Liss, Inc.

DT Journal

LA English

AB Recent studies have shown that integrin  $\alpha v \beta 3$ , a receptor for vitronectin, plays an important role in tumor-induced angiogenesis and tumor growth and that antagonists of  $\alpha v \beta 3$  inhibit angiogenic processes including endothelial cell adhesion and migration. On the other hand, most inhibitors of integrin  $\alpha v \beta 3$  are peptide antagonists that include the Arg-Gly-Asp (RGD) motif. We therefore reasoned that non-peptide inhibitors of endothelial cell adhesion to vitronectin might be useful for inhibition of tumor angiogenesis in vivo. We screened for low-mol.-weight natural products able to inhibit adhesion of human umbilical vein endothelial cells (HUVECs) to vitronectin, and pyrrothine group compds. including aureothricin, thioaurin and thiolutin were isolated from microbial culture broths. Of these compds., thiolutin inhibited adhesion of HUVECs to vitronectin the most effectively (IC<sub>50</sub>, 0.83  $\mu$ M). In vivo expts. showed that thiolutin significantly suppressed angiogenesis induced by tumor cells (S-180), a pathol. form of neovascularization, in a mouse dorsal air sac assay system. To explore the mechanism of inhibition of HUVEC adhesion to vitronectin by thiolutin, we examined the effect of this agent on intracellular cell adhesion signaling. We found that the amount of paxillin in HUVECs was significantly reduced by thiolutin treatment, while those of other focal adhesion proteins including vinculin and focal adhesion kinase (FAK) were not. Metabolic labeling expts. showed that thiolutin enhanced degradation of paxillin in HUVECs. Protease inhibitors (MGI 15 and E64 Da) decreased the rate of degradation of the paxillin induced by thiolutin and partially restored thiolutin-induced inhibition of HUVEC adhesion to vitronectin. Based on these findings, we concluded that thiolutin, an inhibitor of HUVEC adhesion to vitronectin, reduces the paxillin level in HUVECs and suppresses tumor cell-induced angiogenesis in vivo.

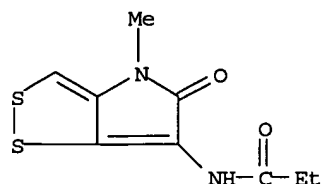
IT 574-95-8, Aureothricin

RL: PAC (Pharmacological activity); BIOL (Biological study)

(thiolutin, an inhibitor of HUVEC adhesion to vitronectin, reduces paxillin in HUVECS and suppresses tumor cell-induced angiogenesis)

RN 574-95-8 HCAPLUS

CN Propanamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-(9CI) (CA INDEX NAME)

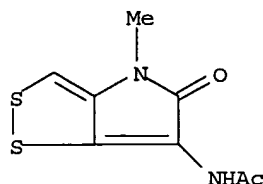


IT 87-11-6, Thiolutin

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(thiolutin, an inhibitor of HUVEC adhesion to vitronectin, reduces  
paxillin in HUVECS and suppresses tumor cell-induced angiogenesis)

RN 87-11-6 HCAPLUS

CN Acetamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-  
(8CI, 9CI) (CA INDEX NAME)



# RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Auerbach, W	1994	63	265	Pharmacol Ther	HCAPLUS
Bhattacharya, S	1996	270	16781	J Biol Chem	
Blood, C	1990	1032	89	Biochim Biophys Acta	HCAPLUS
Brooks, P	1994	79	1157	Cell	HCAPLUS
Brooks, P	1995	96	1815	J Clin Invest	HCAPLUS
Brooks, P	1994	264	569	Science	HCAPLUS
Celmer, W	1955	77	2861	J Am Chem Soc	HCAPLUS
Cheresh, D	1991	10	3	Cancer Metastasis Re	HCAPLUS
Clark, E	1995	268	233	Science	HCAPLUS
Downs, E	1992	152	422	J Cell Physiol	HCAPLUS
D'Amore, P	1992	3	49	Semin Cancer Biol	MEDLINE
Folkman, J	1987	235	442	Science	HCAPLUS
Folkman, J	1992	3	89	Semin Cancer Biol	MEDLINE
Friedlander, M	1995	270	1500	Science	HCAPLUS
Hynes, R	1992	69	11	Cell	HCAPLUS
Jain, R	1997	3	1203	Nature (Lond)	HCAPLUS
Kawada, M	1999	1452	209	Biochim Biophys Acta	HCAPLUS
Laemmli, U	1970	224	680	Nature	
Majewski, S	1994	57	81	Int J Cancer	HCAPLUS
Miyamoto, S	1995	131	791	J Cell Biol	HCAPLUS
Mori, S	1995	270	29447	J Biol Chem	HCAPLUS
Nauyen, M	1994	47	31	Microvasc Res	
Oikawa, T	1997	17	1881	Anticancer Res	HCAPLUS
Ono, M	1996	56	1512	Cancer Res	HCAPLUS
Ruess, C	1998	4	408	Nature Med	
Schwartz, M	1995	11	549	Annu Rev Cell Dev Bi	HCAPLUS
Sidky, Y	1997	47	5155	Cancer Res	
Staiano, N	1997	73	298	Eur J Cell Biol	HCAPLUS
Sunderkotter, C	1994	55	410	J Leukoc Biol	MEDLINE
Tamai, M	1987	35	1098	Chem Pharm Bull (Tok	HCAPLUS
Thomas, S	1997	13	513	Annu Rev Cell Dev Bi	HCAPLUS
Thompson, J	1988	241	1349	Science	HCAPLUS
Tipper, D	1973	116	245	J Bacteriol	HCAPLUS
Tong, X	1997	94	4412	Proc Natl Acad Sci U	HCAPLUS
Ueno, M	1993	46	719	J Antibiot (Tokyo)	HCAPLUS
Yamaguchi, R	1997	15	1753	Oncogene	HCAPLUS

L39 ANSWER 7 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:371150 HCAPLUS

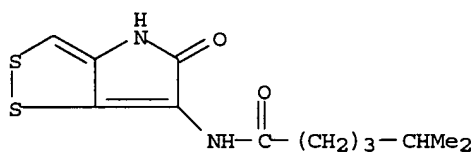
DN 135:119325

TI Unusual cytotoxic phenethylamides from Xenorhabdus nematophilus

AU Paik, Seunguk; Park, Young Hwan; Suh, Seong Il; Kim, Hyun Su; Lee, In Sun;  
Park, Myung Kwang; Lee, Chun Soo; Park, Sun Ho

CS Faculty of Chemical & Materials Engineering, Keimyung University, Taegu,

704-701, S. Korea  
 SO Bulletin of the Korean Chemical Society (2001), 22(4), 372-374  
 CODEN: BKCSDE; ISSN: 0253-2964  
 PB Korean Chemical Society  
 DT Journal  
 LA English  
 AB Three simple carboxamides incorporating the phenethylamine moiety were isolated from strain XR-NC of the symbiotic bacterium *X. nematophilus*. Their structures were identified by spectroscopic data and synthesis. The compds. exhibited significant cytotoxicities against human cancer-cell line, viz. gastric adenocarcinoma, colon adenocarcinoma, and lung adenocarcinoma.  
 IT 92680-90-5  
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)  
 (from *Xenorhabdus nematophilus*)  
 RN 92680-90-5 HCAPLUS  
 CN Hexanamide, N-(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-5-methyl- (9CI) (CA INDEX NAME)



## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Akhurst, R	1982	128	3061	J Gen Microbiol	HCAPLUS
Chen, G	1994	4	157	Biol Control	
Forst, S	1996	60	21	Microbiol Rev	HCAPLUS
Ginos, J	1979	22	1323	J Med Chem	HCAPLUS
Huntress, E	1948	13	674	J Org Chem	HCAPLUS
Li, J	1997	43	770	J Microbiol	HCAPLUS
Li, J	1995	58	1081	J Nat Prod	HCAPLUS
Li, J	1996	59	1157	J Nat Prod	HCAPLUS
Maxwell, P	1994	60	715	Appl Environ Microbi	HCAPLUS
McInerney, B	1991	54	774	J Nat Prod	HCAPLUS
McInerney, B	1991	54	785	J Nat Prod	HCAPLUS
Park, S	1999	4	11	Biotechnol Bioprocess	
Paul, V	1981	7	589	J Chem Ecol	HCAPLUS
Paul, V	1981	7	589	J Chem Ecol	HCAPLUS
Richardson, W	1988	54	1602	Appl Environ Microbi	HCAPLUS
Ryu, K	2000	5	141	Biotechnol Bioprocess	HCAPLUS
Shima, H	1991			JP--05-03792	HCAPLUS
Twentyman, P	1987	56	279	Br J Cancer	MEDLINE

L39 ANSWER 8 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:152704 HCAPLUS

DN 134:193674

TI Preparation of A-500359 derivatives as antibacterial agents

IN Hotoda, Hitoshi; Kaneko, Masakatsu; Inukai, Masatoshi; Muramatsu, Yasunori; Utsui, Yukio; Ohya, Satoshi

PA Sankyo Company, Ltd., Japan

SO PCT Int. Appl., 459 pp.

CODEN: PIXXD2

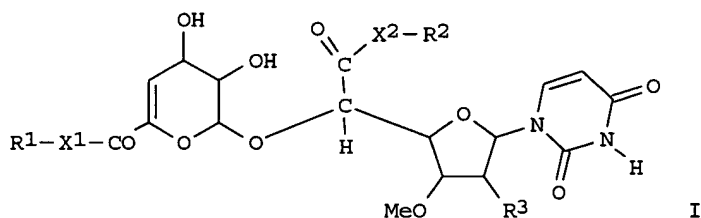
DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO2001014399 A1 20010301 2000WO-JP05538 20000818 <--  
W: AU, BR, CA, CN, CZ, HU, ID, IL, IN, KR, MX, NO, NZ, PL, RU, TR,  
US, ZA  
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
PT, SE  
CA---2382654 AA 20010301 2000CA-2382654 20000818 <--  
AU2000065955 A5 20010319 2000AU-0065955 20000818 <--  
AU---763492 B2 20030724  
JP2001192394 A2 20010717 2000JP-0248322 20000818 <--  
EP---1209166 A1 20020529 2000EP-0953494 20000818 <--  
EP---1209166 B1 20040331  
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IE, FI, CY  
TR-200200485 T2 20020621 2002TR-0000485 20000818 <--  
BR2000013435 A 20020716 2000BR-0013435 20000818 <--  
NZ---517315 A 20040227 2000NZ-0517315 20000818 <--  
AT---263183 E 20040415 2000AT-0953494 20000818 <--  
RU---2227799 C2 20040427 2002RU-0104359 20000818 <--  
PT---1209166 T 20040630 2000PT-0953494 20000818 <--  
ES---2216933 T3 20041101 2000ES-0953494 20000818 <--  
NO2002000804 A 20020419 2002NO-0000804 20020219 <--  
ZA2002001409 A 20030519 2002ZA-0001409 20020219 <--  
US2003171330 A1 20030911 2002US-0080191 20020219 <--  
HK---1044951 A1 20040813 2002HK-0106306 20020827 <--  
PRAI 1999JP-0233934 A 19990820 <--  
2000WO-JP05538 W 20000818 <--  
OS MARPAT 134:193674  
GI



AB The title compds. I [R1 and R2 are each an optionally substituted, aryl, heterocyclic, alkyl or alkenyl group or the like; R3 is hydrogen or hydroxyl; and X1 and X2 are each oxygen, sulfur, or optionally substituted nitrogen] are prepared. Compds. of this invention in vitro show min. inhibitory concns. of 0.25 µg/mL to 4 µg/mL against Mycobacterium avium NIHJ 1605, vs. MIC of 8 µg/mL shown by capuramycin. Formulations are given.

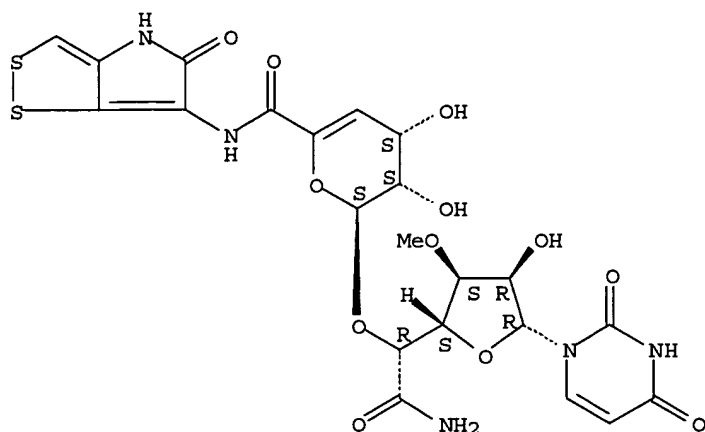
IT 327984-63-4P 327985-01-3P 327985-02-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of A-500359 derivs. as antibacterial agents)

RN 327984-63-4 HCAPLUS

CN α-L-Talofuranuronamide, 1-deoxy-5-O-[4-deoxy-N-(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-β-L-erythro-hex-4-enopyranuronamidosyl]-1-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-3-O-methyl- (9CI) (CA INDEX NAME)

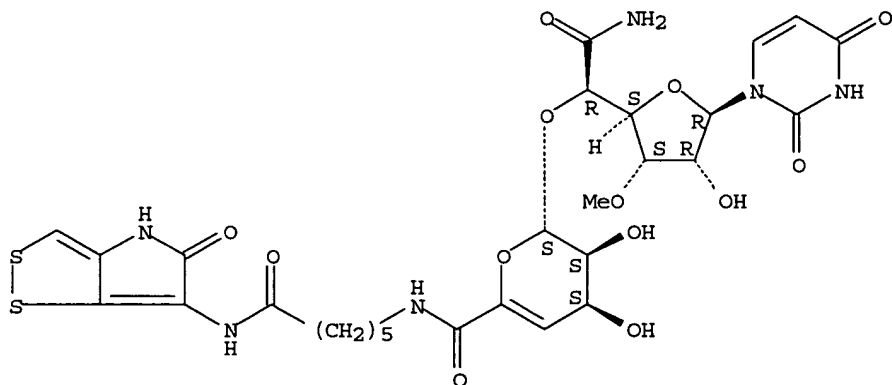
Absolute stereochemistry.



RN 327985-01-3 HCAPLUS

CN  $\alpha$ -L-Talofuranuronamide, 1-deoxy-5-O- [4-deoxy-N- [6- [(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)amino]-6-oxohexyl]- $\beta$ -L-erythro-hex-4-enopyranuronamidosyl]-1- (3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-3-O-methyl- (9CI) (CA INDEX NAME)

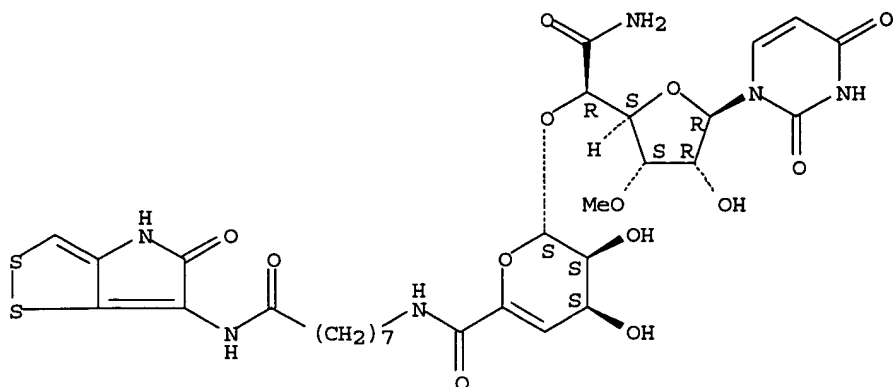
Absolute stereochemistry.



RN 327985-02-4 HCAPLUS

CN  $\alpha$ -L-Talofuranuronamide, 1-deoxy-5-O- [4-deoxy-N- [8- [(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)amino]-8-oxooctyl]- $\beta$ -L-erythro-hex-4-enopyranuronamidosyl]-1- (3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)-3-O-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



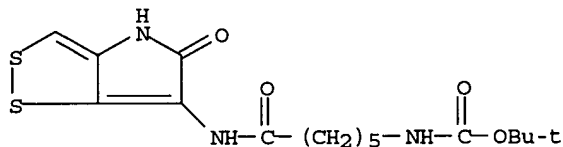
IT 327985-32-0P 327985-33-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of A-500359 derivs. as antibacterial agents)

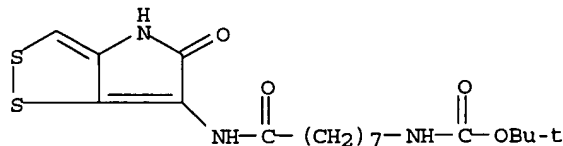
RN 327985-32-0 HCAPLUS

CN Carbamic acid, [6-[(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)amino]-6-oxohexyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 327985-33-1 HCAPLUS

CN Carbamic acid, [8-[(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)amino]-8-oxooctyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



# RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
American Chemical Socie				JP2000159765 A	HCAPLUS
Kanto Ishi Pharma Co Lt	1985			JP--60259190 A	HCAPLUS
Mect Corporation	1993			JP--05148293 A	HCAPLUS
Sankyo Co Ltd				JP2000154187 A	HCAPLUS
Sankyo Co Ltd	2000			WO---0002892 A1	HCAPLUS

L39 ANSWER 9 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:64572 HCAPLUS

DN 134:219584

TI Antimicrobial properties and mode of action of the pyrrothine holomycin

AU Oliva, Brunello; O'Neill, Alexander; Wilson, Jenny M.; O'Hanlon, Peter J.; Chopra, Ian

CS Department of Experimental Medicine, University of L'Aquila, L'Aquila, 67100, Italy



SO Antimicrobial Agents and Chemotherapy (2001), 45(2), 532-539  
 CODEN: AMACCQ; ISSN: 0066-4804

PB American Society for Microbiology

DT Journal

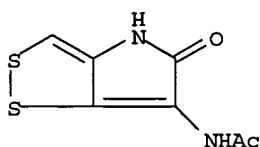
LA English

AB Holomycin, a member of the pyrrothine class of antibiotics, displayed broad-spectrum antibacterial activity, inhibiting a variety of gram-pos. and gram-neg. bacteria, with the exception of *Enterobacter cloacae*, *Morganella morganii*, and *Pseudomonas aeruginosa*. The antibiotic lacked activity against the eukaryotic microorganisms *Saccharomyces cerevisiae* and *Candida kefyr*. Holomycin exhibited a bacteriostatic response against *Escherichia coli* that was associated with rapid inhibition of RNA synthesis in whole cells. Inhibition of RNA synthesis could have been a secondary consequence of inhibiting tRNA aminoacylation, thereby inducing the stringent response. However, the levels of inhibition of RNA synthesis by holomycin were similar in a stringent and relaxed pair of *E. coli* strains that were isogenic except for the deletion of the *relA* gene. This suggests that inhibition of RNA synthesis by holomycin could reflect direct inhibition of DNA-dependent RNA polymerase. Examination of the effects of holomycin on the kinetics of the appearance of  $\beta$ -galactosidase in induced *E. coli* cells was also consistent with inhibition of RNA polymerase at the level of RNA chain elongation. However, holomycin only weakly inhibited *E. coli* RNA polymerase in assays using synthetic poly(dA-dT) and plasmid templates. Furthermore, inhibition of RNA polymerase was observed only at holomycin concns. in excess of those required to inhibit the growth of *E. coli*. It is possible that holomycin is a prodrug, requiring conversion in the cell to an active species that inhibits RNA polymerase.

IT 488-04-0, Holomycin  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)  
 (antimicrobial properties and mode of action of the pyrrothine holomycin)

RN 488-04-0 HCAPLUS

CN Acetamide, N-(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (8CI, 9CI) (CA INDEX NAME)



## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Cashel, M	1996		1458	<i>Escherichia coli</i> and	
Celmer, W	1955	77	2861	J Am Chem Soc	HCAPLUS
Cherrington, C	1990	68	69	J Appl Bacteriol	HCAPLUS
Chopra, I	1975	91	433	J Gen Microbiol	MEDLINE
Das, A	1992		68	Emerging targets in	HCAPLUS
Ettlinger, L	1959	42	563	Helv Chim Acta	HCAPLUS
Gross, C	1976	128	382	J Bacteriol	HCAPLUS
Hartmann, G	1967	145	843	Biochim Biophys Acta	HCAPLUS
Hughes, J	1978	176	305	Biochem J	HCAPLUS
Jiminez, A	1973	3	729	Antimicrob Agents Ch	
Jin, D	1996	273	300	Methods Enzymol	HCAPLUS
Juhl, M	1990	56	3179	Appl Environ Microbi	HCAPLUS
Kenig, M	1979	32	549	J Antibiot	HCAPLUS
Khachatourians, G	1974	6	304	Antimicrob Agents Ch	HCAPLUS
Khachatourians, G	1974	119	795	J Bacteriol	HCAPLUS
Miller, J	1992			A short course in ba	

Neidhardt, F	1974	119	736	J Bacteriol	HCAPLUS
Novick, R	1967	33	155	Virology	MEDLINE
Oliva, B	1993	32	817	J Antimicrob Chemoth	HCAPLUS
O'Neill, A	2000	44	3163	Antimicrob Agents Ch	HCAPLUS
Rabussay, D	1969	5	104	FEBS Lett	HCAPLUS
Sambrook, J	1989			Molecular cloning; a	
Seneca, H	1952	2	357	Antibiot Chemother	HCAPLUS
Sivasubramanian, N	1976	145	89	Mol Gen Genet	HCAPLUS
Tipper, D	1973	116	245	J Bacteriol	HCAPLUS
von Daehne, W	1969	22	233	J Antibiot	HCAPLUS
Wehrli, W	1983	5	S407	Rev Infect Dis	HCAPLUS
Wilson, J	1995	39	1925	Antimicrob Agents Ch	HCAPLUS
Xiao, H	1991	266	5980	J Biol Chem	HCAPLUS

L39 ANSWER 10 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:780121 HCAPLUS

DN 134:53745

TI RNA polymerase inhibitors with activity against rifampin-resistant mutants of *Staphylococcus aureus*

AU O'Neill, Alexander; Oliva, Brunello; Storey, Christopher; Hoyle, Anthony; Fishwick, Colin; Chopra, Ian

CS Antimicrobial Research Centre and Division of Microbiology, University of Leeds, Leeds, LS2 9JT, UK

SO Antimicrobial Agents and Chemotherapy (2000), 44(11), 3163-3166  
CODEN: AMACCQ; ISSN: 0066-4804

PB American Society for Microbiology

DT Journal

LA English

AB A collection of rifampin-resistant mutants of *S. aureus* with characterized RNA polymerase  $\beta$ -subunit (*rpoB*) gene mutations was cross-screened against a number of other RNA polymerase inhibitors to correlate susceptibility with specific *rpoB* genotypes. The *rpoB* mutants were cross-resistant to streptolydigin and sorangicin A. In contrast, thiolutin, holomycin, corallopironin A, and ripostatin A retained activity against the *rpoB* mutants. The 2nd group of inhibitors may be of interest as drug development candidates.

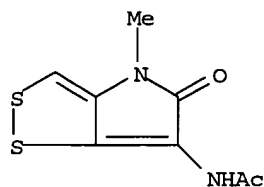
IT 87-11-6, Thiolutin 488-04-0, Holomycin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(RNA polymerase inhibitors with activity against rifampin-resistant mutants of *Staphylococcus aureus*)

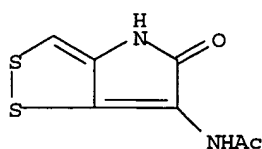
RN 87-11-6 HCAPLUS

CN Acetamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (8CI, 9CI) (CA INDEX NAME)



RN 488-04-0 HCAPLUS

CN Acetamide, N-(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (8CI, 9CI) (CA INDEX NAME)



## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Aubry-Damon, H	1998	42	2590	Antimicrob Agents Ch	HCAPLUS
British Society for Ant	1991	27	1	J Antimicrob Chemoth	
Chopra, I	1997	41	497	Antimicrob Agents Ch	HCAPLUS
Chopra, I	1996	275	401	JAMA	MEDLINE
Cohen, M	1992	257	1050	Science	MEDLINE
Das, A	1992		68	Emerging targets in	HCAPLUS
Drancourt, M	1999	43	2400	Antimicrob Agents Ch	HCAPLUS
Enright, M	1998	4	65	Microb Drug Res	HCAPLUS
Heisler, L	1993	268	25369	J Biol Chem	HCAPLUS
Irschik, H	1985	38	145	J Antibiot	HCAPLUS
Irschik, H	1987	40	7	J Antibiot	HCAPLUS
Irschik, H	1995	48	787	J Antibiot	HCAPLUS
Iwakura, Y	1973	121	181	Mol Gen Genet	HCAPLUS
Jiminez, A	1973	3	729	Antimicrob Agents Ch	
Jin, D	1988	202	45	J Mol Biol	HCAPLUS
Jin, D	1996	273	300	Methods Enzymol	HCAPLUS
Kenig, M	1979	32	549	J Antibiot	HCAPLUS
Khachatourians, G	1974	119	795	J Bacteriol	HCAPLUS
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Parenti, F	1997		453	Antibiotic and chemo	HCAPLUS
Ramaswamy, S	1998	79	3	Tuberc Lung Dis	MEDLINE
Reichenbach, H	1999		149	Drug discovery from	HCAPLUS
Romele, G	1990	43	88	J Antibiot	
Sambrook, J	1987			Molecular cloning: a	
Seneca, H	1952	2	357	Antibiot Chemother	HCAPLUS
Troyer, J	1998	42	1845	Antimicrob Agents Ch	HCAPLUS
Wichelhaus, T	1999	43	2813	Antimicrob Agents Ch	HCAPLUS
Williams, D	1998	42	1853	Antimicrob Agents Ch	HCAPLUS
Zahner, H	1995		67	Fifty years of antim	

L39 ANSWER 11 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:288119 HCAPLUS

DN 133:71176

TI Thiomarinols: discovery from a marine bacterium, structure-activity relationship, and efficacy as topical antibacterial agents

AU Shiozawa, Hideyuki; Fukuoka, Takashi; Fujimoto, Katsumi; Kodama, Kentaro

CS Biomedical Research Laboratories, SANKYO CO. LTD., Tokyo, 140-8710, Japan

SO Annual Report of Sankyo Research Laboratories (1999), 51, 45-72

CODEN: ASRLEC; ISSN: 1341-741X

PB Sankyo Co., Ltd., Research Institute

DT Journal; General Review

LA English

AB A review with 56 refs. on thiomarinols, including discovery of the producing strain (*Alteromonas rava*) from a marine environment, structural features, biol. activities, structure-activity relationship, ode of action, and evaluation of thiomarinol B as a topical agent.

IT 156098-43-0D, Thiomarinol B, analogs

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses) (discovery of thiomarinols from a marine bacterium, structure-activity relationship, and efficacy as topical antibacterial agents)

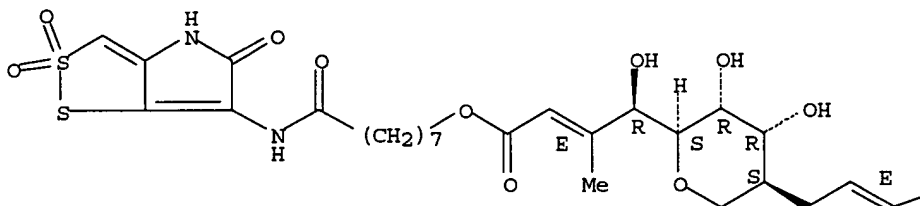
RN 156098-43-0 HCAPLUS

CN L-glycero-D-altro-Non-2-enonic acid, 5,9-anhydro-2,3,8-trideoxy-8-[(2E,4R,5S)-5-hydroxy-4-methyl-2-hexenyl]-3-methyl-, 8-[(4,5-dihydro-2,2-dioxido-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)amino]-8-oxooctyl ester, (2E)- (9CI) (CA INDEX NAME)

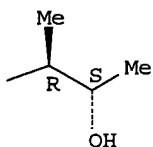
Absolute stereochemistry. Rotation (-).

Double bond geometry as shown.

PAGE 1-A



PAGE 1-B



IT 156098-43-0, Thiomarinol B

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(evaluation as a topical antibacterial agent)

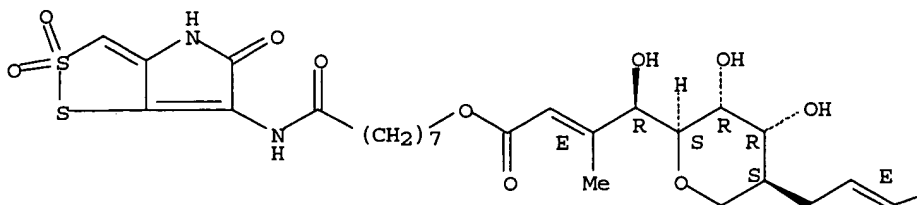
RN 156098-43-0 HCAPLUS

CN L-glycero-D-altro-Non-2-enonic acid, 5,9-anhydro-2,3,8-trideoxy-8-[(2E,4R,5S)-5-hydroxy-4-methyl-2-hexenyl]-3-methyl-, 8-[(4,5-dihydro-2,2-dioxido-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)amino]-8-oxooctyl ester, (2E)- (9CI) (CA INDEX NAME)

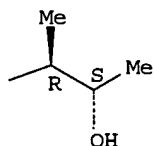
Absolute stereochemistry. Rotation (-).

Double bond geometry as shown.

PAGE 1-A



PAGE 1-B



## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Abe, Y	1992	4	42	J Dermatol Sci	MEDLINE
Baggaley, K	1994			WO---9426750	HCAPLUS
Basker, M	1980	1	471	Current chemotherapy	HCAPLUS
Baumann, P	1984	1	343	Bergey's Manual of S	
Bhate, D	1960	16	504	Experientia	HCAPLUS
Burkholder, P	1966	14	649	Appl Microbiol	MEDLINE
Casewell, M	1987	19	1	J Antimicrob Chemoth	MEDLINE
Celmer, W	1955	77	2861	J Am Chem Soc	HCAPLUS
Chain, E	1977		294	J Chem Soc Perkin Tr	HCAPLUS
Chain, E	1977		318	J Chem Soc Perkin Tr	HCAPLUS
Class, Y	1995	95	1843	Chem Rev	HCAPLUS
Clayton, J	1979		308	J Chem Soc Perkin Tr	HCAPLUS
Clayton, J	1982		2827	J Chem Soc Perkin Tr	HCAPLUS
Ettlinger, L	1959	42	563	Helv Chim Acta	HCAPLUS
Fujimoto, K	1994			Jpn Kokai Tokkyo Koh	
Fuller, A	1971	234	416	Nature	HCAPLUS
Gauthier, G	1995	45	775	Int J Syst Bacteriol	
Holder, I	1971	11	1041	J Trauma	MEDLINE
Hughes, J	1978	176	305	Biochem J	HCAPLUS
Hughes, J	1980	191	209	Biochem J	HCAPLUS
Hughes, J	1978	31	330	J Antibiot	HCAPLUS
Janssen, D	1993	37	2003	Antimicrob Agents Ch	HCAPLUS
Jensen, B	1971	27	392	Acta Cryst B	HCAPLUS
Jensen, B	1969	22	231	J Antibiot	HCAPLUS
Jimenez, A	1973	3	729	Antimicrob Agents Ch	HCAPLUS
Joshi, A	1982	22	541	Antimicrob Agents Ch	HCAPLUS
Kameyama, T	1987	40	1664	J Antibiot	HCAPLUS
Khachatourians, G	1974	6	306	Antimicrob Agents Ch	
Khachatourians, G	1974	119	795	J Bacteriol	HCAPLUS
Kodama, K	1993	45	131	Annu Rep Sankyo Res	HCAPLUS
Korzybski, T	1978	1	748	Antibiotics Origin,	
Lang, S	1992	105	438	NZ Med J	MEDLINE
Li, J	1995	58	1081	J Nat Prod	HCAPLUS
McInerney, B	1991	54	774	J Nat Prod	HCAPLUS
McRipley, R	1976	10	38	Antimicrob Agents Ch	MEDLINE
Naguib, M	1993	39	400	Chemotherapy	HCAPLUS
Okamura, K	1977	30	334	J Antibiot	HCAPLUS
O'Hanlon, P	1983		2655	J Chem Soc Perkin Tr	HCAPLUS
Rahman, M	1989	102	261	Epidemiol Infect	HCAPLUS
Riley, T	1994	161	397	Med J Aust	MEDLINE
Roza, J	1986	39	609	J Antibiot	HCAPLUS
Russel, H	1968		497	Antimicrob Agents Ch	
Sato, A	1995	47	1	Annu Rep Sankyo Res	HCAPLUS
Shiozawa, H	1993	46	1834	J Antibiot	HCAPLUS
Shiozawa, H	1994	47	851	J Antibiot	HCAPLUS
Shiozawa, H	1995	48	907	J Antibiot	HCAPLUS
Shiozawa, H	1997	50	449	J Antibiot	HCAPLUS

Sivasubramanian, N	1976	145	89	Mol Gen Genet	HCAPLUS
Stierle, D	1992	48	1165	Experientia	HCAPLUS
Sutherland, R	1985	27	495	Antimicrob Agents Ch	HCAPLUS
Tanaka, N	1998		47	Proceedings of the 6	
Tipper, D	1973	116	245	J Bacteriol	HCAPLUS
Udo, E	1994	26	157	J Hosp Infect	MEDLINE
Umezawa, H	1983	36	471	J Antibiot	HCAPLUS
von Daehne, W	1969	22	233	J Antibiot	HCAPLUS
Ward, A	1986	32	425	Drugs	HCAPLUS

L39 ANSWER 12 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1999:337025 HCAPLUS

DN 131:87856

TI Fused 1,2-dithioles. Part 5. Carbenoid anions as intermediates in reactions of pyrrothins and their hetero analogs

AU Schachtner, J. E.; Nienaber, J.; Stachel, H.-D.; Waisser, K.

CS Inst. Pharmazie, Zentrum Pharmaforschung, Univ. Munich, Munich, D-80333, Germany

SO Pharmazie (1999), 54(5), 335-340

CODEN: PHARAT; ISSN: 0031-7144

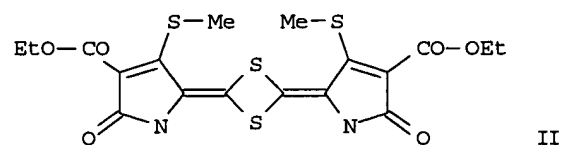
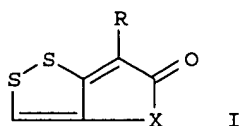
PB Govi-Verlag Pharmazeutischer Verlag

DT Journal

LA English

OS CASREACT 131:87856

GI



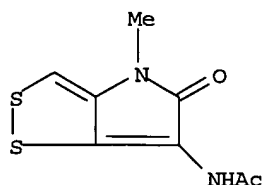
AB Pyrrothins like thiolutin and other bicyclic 1,2-dithioles of type I (X = NH, NMe, O, S) unsubstituted in 3-position are marked by their CH acidity. In the presence of weak bases such as Et3N, dithiolo[4,3-b]pyrrolone I (X = NMe, R = CO2Et) degraded via its anion to a thioketene trapped as 1,3-dithietane II. The carbenoid anions of I reacted with elemental S forming enethiolates whose alkylation led to the corresponding 3-thioethers or, in the case of a thiolactam analog, to 3-thioxo-1,2-1,2-dithiolo[4,3-b]pyrroles. In the same manner selenides can be obtained via intermediate selenolate ions. Introduction of an aryl- or hetarylthio group into I was achieved directly by reaction of the corresponding anions with suitable disulfides. The new compds. exhibited activity against Mycobacterium tuberculosis in primary screening.

IT 87-11-6, Thiolutin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)  
(tuberculostatic activity)

RN 87-11-6 HCAPLUS

CN Acetamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-(8CI, 9CI) (CA INDEX NAME)



## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Behringer, H	1981		1729	Liebigs Ann	HCAPLUS
Bordwell, F	1991	113	985	J Amer Chem Soc	HCAPLUS
Braun, M	1993	E 19d	178	Methoden der organis	
Braun, M	1993	E 19d	932	Methoden der organis	
Breslow, R	1957	79	1762	J Amer Chem Soc	HCAPLUS
Breslow, R	1958	80	3719	J Amer Chem Soc	HCAPLUS
Celmer, W	1952	74	6304	J Am Chem Soc	HCAPLUS
Celmer, W	1955	77	2861	J Am Chem Soc	HCAPLUS
Dickinson, J	1995	1	1089	Comprehensive Organi	
Duus, H	1993	E 8a	517	Methoden der Organis	
Ebetino, F	1990	30	855	Heterocycles	HCAPLUS
Eckl, E	1986			Diss Univ Munchen	
Ekogha, C	1983	24	4825	Tetrahedron Lett	HCAPLUS
Ettlinger, L	1959	42	563	Helv Chim Acta	HCAPLUS
Freund, M	1895	28	74	Chem Ber	
Hakimelahi, G	1982	23	913	Tetrahedron Lett	HCAPLUS
Helquist, P	1993	4	951	Comprehensive Organi	
Husslein, M	1987			Diss Univ Munchen	
Joriczyk, A	1997	E 17a	776	Methoden der Organis	
Klingsberg, E	1963	28	529	J Org Chem	HCAPLUS
Kluger, R	1987	87	863	Chem Rev	HCAPLUS
Krief, A	1993	3	85	Comprehensive Organi	
Lien, E	1993	40	163	Progress in Drug Res	HCAPLUS
Liotta, D	1980	21	3643	Tetrahedron Lett	HCAPLUS
Matsumoto, T	1985	50	603	J Org Chem	HCAPLUS
Mikolajczyk, M	1980		127	Synthesis	HCAPLUS
Miyashita, A	1996	43	509	Heterocycles	HCAPLUS
Nakayama, J	1983	24	2585	Tetrahedron Lett	HCAPLUS
Nienaber, J	1991			Diss Univ Munchen	
Prinzbach, H	1966	78	492	Angew Chem	
Prinzbach, H		5	513	Angew Chem Int Ed	
Regitz, M	1996	108	791	Angew Chem	
Regitz, M		35	725	Angew Chem Int Ed	HCAPLUS
Reich, H	1975	97	5434	J Amer Chem Soc	HCAPLUS
Reich, H	1980	45	5227	J Org Chem	HCAPLUS
Schachtner, J				to be published in J	
Schaumann, E	1985	E 11	233	Methoden der Organis	
Scheibye, S	1979	35	1339	Tetrahedron	HCAPLUS
Schoberl, A	1955	9	200	Methoden der Organis	
Schorp, M	1990			Diss Univ Munchen	
Sorensen, H	1971	8	551	J Heterocycl Chem	HCAPLUS
Stachel, H	1997	62	510	Collect Czech Chem C	HCAPLUS
Stachel, H	1992		1039	Liebigs Ann Chem	HCAPLUS
Stachel, H	1992		473	Liebigs Ann Chem	HCAPLUS
Stachel, H	1993		305	Liebigs Ann Chem	HCAPLUS
Stetter, H	1976	88	695	Angew Chem	HCAPLUS
Stetter, H		15	639	Angew Chem Int Ed	
Toshimitsu, A	1984	49	3796	J Org Chem	HCAPLUS
Umezawa, H	1948	1	512	Japan Med J	HCAPLUS
Wanzlick, H	1964	97	3513	Chem Ber	HCAPLUS
Wuyts, H	1903	29	689	Bull Soc Chim Fr	HCAPLUS

Zoller, U	1996	1B	1113	Comprehensive Hetero	HCAPLUS
Zoukas, T	1994			Diss Univ Munchen	

L39 ANSWER 13 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1999:216717 HCAPLUS

DN 130:352202

TI Fused 1,2-dithioles. IV. Synthesis and reactions of 1,2-dithiole s-oxides

AU Schachtner, Josef Emmeram; Zoukas, Thomas; Stachel, Hans-Dietrich;  
Polborn, Kurt; Noth, HeinrichCS Institut fur Pharmazie und Lebensmittelchemie der Universitat Munchen,  
Munchen, D-80333, GermanySO Journal of Heterocyclic Chemistry (1999), 36(1), 161-175  
CODEN: JHTCAD; ISSN: 0022-152X

PB HeteroCorporation

DT Journal

LA English

OS CASREACT 130:352202

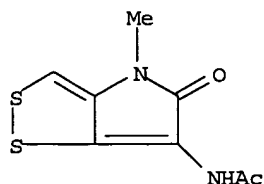
AB 1,2-Dithiopyrrolones and their heterologs are resonance-stabilized systems displaying a high dipole moment. Upon oxidation with organic peracids such compds. gave the corresponding S(2)-oxides and, depending on substituents, in some cases the S(2)- and S(1)-dioxides. Suitable starting materials were 4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrole-3,6-dicarboxylic acid di-Me ester and 4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrole-3,6-dicarboxylic acid 3-Et 5-Me ester. The S(2)-monoxides showed a proclivity to disproportionation and were easily reduced to dithioles with sym. dimethylhydrazine. From S(2)-oxides and several primary amines bicyclic isothiazole-S-oxides were obtained (S/N-exchange reaction). From an N-unsubstituted isothiazole S-oxide, an N-hydroxyisothiazole was synthesized by an aza-Pummerer-type rearrangement. The assumption is made that S(2)-oxides may be biol. important (no data) as active metabolites of pyrrothine derivs. in their action as antibacterial agents and antimycobacterial agents.

IT 87-11-6

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation and reactions of 1,2-dithiolo[4,3-b]pyrrole-3,6-dicarboxylate  
oxide derivs.)

RN 87-11-6 HCAPLUS

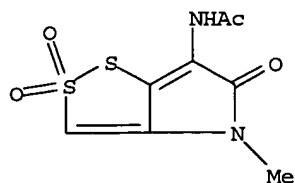
CN Acetamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-  
(8CI, 9CI) (CA INDEX NAME)

IT 224171-21-5P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 224171-21-5 HCAPLUS

CN Acetamide, N-(4,5-dihydro-4-methyl-2,2-dioxido-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (9CI) (CA INDEX NAME)





## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Adams, J	1996	3	308	Burger's Medicinal C	
Behrozzi, S	1996	35	1768	J Biochemistry	
Block, E	1992	31	1135	Angew Chem Int Ed En	
Block, E	1986	108	7045	J Am Chem Soc	HCAPLUS
Block, E	1996	118	2790	J Am Chem Soc	HCAPLUS
Block, E	1996	118	2799	J Am Chem Soc	HCAPLUS
Blockand, E	1974	96	3921	J Am Chem Soc	
Burger, A	1991	37	287	Progress in Drug Res	HCAPLUS
Capozzi, G	1990		413	The Chemistry of Sul	
Celmer, W	1952	74	6304	J Am Chem Soc	HCAPLUS
Clemer, W	1955	77	2861	J Am Chem Soc	
Cohen, N	1995	45	205	Drug Research	HCAPLUS
Craine, L	1989	89	689	Chem Rev	HCAPLUS
Davis, F	1976	41	897	J Org Chem	HCAPLUS
Dewar, M				GAUSSIAN 94	
Dewar, M	1985	107	3902	J Am Chem Soc	HCAPLUS
Drabowicz, J				J Org Chem	
Drabowicz, J	1990		221	The Chemistry of Sul	HCAPLUS
Dunbar, J	1966	31	2842	J Org Chem	HCAPLUS
Ellis, J	1977	42	2891	J Org Chem	HCAPLUS
Ettlinger, L	1959	42	563	Helv Chim Acta	HCAPLUS
Exner, O	1997		261	The Chemistry of Dou	
Eyer, P	1996		999	The Chemistry of Ami	
Famulok, M	1988	28	337	Angew Chem Int Ed En	
Field, L	1969	34	1792	J Org Chem	HCAPLUS
Field, L	1971	36	309	J Org Chem	HCAPLUS
Finch, N	1980	45	3416	J Org Chem	HCAPLUS
Folkins, P	1991	113	8998	J Am Chem Soc	HCAPLUS
Folkins, P	1993	115	3066	J Am Chem Soc	HCAPLUS
Folkins, P	1991	56	904	J Org Chem	HCAPLUS
Fuchs, T	1997			Part of the Ph D Dis	
Fukushima, D	1978	83	1019	J Biochem	HCAPLUS
Greene, F	1969	34	2263	J Org Chem	HCAPLUS
Gurtler, O	1980	35b	539	Z Naturforsch	
Hafelinger, G	1994		17	The Chemistry of Ena	
Hart, H	1973	V	598	Organic Syntheses Co	
Immerz-Winkler, E	1981			Part of the Ph D Dis	
Isola, M	1982		1381	Tetrahedron Letters	HCAPLUS
Jocelyn, P	1972			The Biochemistry of	
Johnson, C	1979	3	223	Comprehensive Organi	HCAPLUS
Kanda, Y	1993	115	8451	J Am Chem Soc	HCAPLUS
Kice, J	1962	27	4654	J Org Chem	HCAPLUS
Kim, Y	1978		2305	Tetrahedron Letters	HCAPLUS
Kobayashi, T	1977	99	5505	J Am Chem Soc	HCAPLUS
Kresze, G	1962	715	223	Liebigs Ann Chem	
Lien, E	1993	40	163	Progress in Drug Res	HCAPLUS
Louw, R	1976	496		Chem Commun	
Luchterhandt, T	1998			Part of the Ph D Dis	
Maricich, T	1973	95	5831	J Am Chem Soc	HCAPLUS
Mc Celland, R	1996	9	355	J Phys Org Chem	
Miura, Y	1978	1	521	Chem Letters	
Murray, R	1972	37	3516	J Org Chem	HCAPLUS
Murray, R	1971		299	Tetrahedron Letters	HCAPLUS
Novak, M	1995	117	574	J Am Chem Soc	HCAPLUS
Oae, S	1982	18	41	Heterocycles	HCAPLUS
Oae, S	1980		3213	Tetrahedron Letters	HCAPLUS
Pattenden, G	1992		1215	J Chem Soc Perkin Tr	HCAPLUS
Pawlenko, S	1985	E11	1125	Houben-Weyl Organisc	
Perrone, E	1986	51	3413	J Org Chem	HCAPLUS
Prous, J	1997	19	149	Annu Drug Data Rep	
Saupe, T	1986	25	451	Angew Chem Int Ed En	

Schubart, R	1985	E11	107	Houben-Weyl Methoden	
Sheldrick, G	1993			SHELXL-93	
Sheldrick, G	1990			SHELXS-86	
Shiozawa, H	1997	50	449	J Antibiot	HCAPLUS
Stachel, H	1997	62	510	Collect Czech Chem C	HCAPLUS
Stachel, H	1992		1039	Liebigs Ann Chem	HCAPLUS
Stachel, H	1992		473	Liebigs Ann Chem	HCAPLUS
Stachel, H	1993		305	Liebigs Ann Chem	HCAPLUS
Takata, T	1981	54	1443	Bull Chem Soc Japan	HCAPLUS
Takata, T	1983		3631	Tetrahedron Letters	HCAPLUS
Takata, T	1990		535	The Chemistry of Sul	
Tsukamoto, G	1969	42	2566	Bull Chem Soc Japan	HCAPLUS
Umezawa, H	1948	1	512	Japan Med J	HCAPLUS
Venier, C	1982	47	3773	J Org Chem	HCAPLUS
Windt, A	1997			Part of the Ph D Dis	
Zimmer, B	1995			Part of the Ph D Dis	
Zsolnai, L	1994			XPMA ZORTEP	

L39 ANSWER 14 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1998:733275 HCAPLUS

DN 130:136436

TI In vivo characterization of the drug resistance profile of the major ABC transporters and other components of the yeast pleiotropic drug resistance network

AU Kolaczowski, Marcin; Kolaczowska, Anna; Luczynski, Jacek; Witek, Stanislaw; Goffeau, Andre

CS Unite de Biochimie Physiologique, Universite Catholique de Louvain, Louvain la Neuve, Belg.

SO Microbial Drug Resistance (Larchmont, New York) (1998), 4(3), 143-158

CODEN: MDREFJ; ISSN: 1076-6294

PB Mary Ann Liebert, Inc.

DT Journal

LA English

AB Multidrug resistance (MDR) mediated by broad specificity transporters is one of the most important strategies used by pathogens, including cancer cells, to evade chemotherapy. In the yeast *Saccharomyces cerevisiae*, a complex pleiotropic drug resistance (PDR) network of genes involved in MDR is composed of the transcriptional regulators Pdr1p and Pdr3p, which activate expression of the ATP-binding cassette (ABC) MDR transporter-encoding genes PDR5, SNQ2, and YOR1 as well as other not yet identified genes. Three hundred forty-nine toxic compds. were screened in isogenic *S. cerevisiae* strains deleted of PDR5, SNQ2, or YOR1 in different combinations as well as both PDR1 and PDR3. The screen revealed extremely promiscuous, yet limited, and to a large extent overlapping but distinct drug resistance profiles of Pdr5p, Snq2p, and Yor1p. These ABC-MDR transporters mediated resistance to most currently available classes of clin. and agriculturally important fungicides and also to many antibiotics, herbicides, and others. Several classes of compds. were identified for the 1st time in the drug resistance spectrum of MDR transporters. These are fungicides, such as anilinopyrimidines, benzimidazoles, benzenedicarbonitriles, dithiocarbamates, guanidines, imidothiazoles, polyenes, pyrimidynyl carbinols, and strobilurin analogs; the urea derivative and anilide herbicides; flavonoids, several membrane lipids resembling detergents; and newly synthesized lysosomotropic aminoesters; as well as many others. Identification of compds. showing Pdr1p, Pdr3p-dependent, but Pdr5p-, Snq2p-, and Yor1p-independent toxicity, reflected in the case of rhodamine 6G, by efflux alterations, suggests the involvement of new drug resistance genes and is a first step toward their identification. The highly increased toxicity of bile acids toward the PDR1, PDR3 double disruptant together with the decreased level of BAT1 promoter dependent  $\beta$ -galactosidase activity suggest that the Bat1p ABC transporter is a new member of the PDR network. These results may contribute to a better understanding of the mechanism of MDR, in particular in the pathogenic yeast *Candida albicans*. They also provide an indication of the physiol. function of MDR transporters and suggest new

approaches for the cloning of the mammalian bile acid transporters.

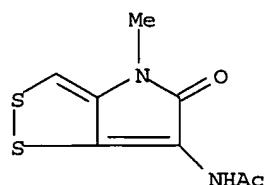
IT 87-11-6, Thiolutin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(drug resistance profile of the major ABC transporters and other components of the yeast pleiotropic drug resistance network)

RN 87-11-6 HCAPLUS

CN Acetamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl) - (8CI, 9CI) (CA INDEX NAME)



# RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Alani, E	1987	116	541	Genetics	HCAPLUS
Alarco, A	1997	272	19304	J Biol Chem	HCAPLUS
Albertson, G	1996	40	2835	Antimicrob Agents Ch	HCAPLUS
Balzi, E	1995	27	71	J Bioenerg Biomembr	HCAPLUS
Balzi, E	1987	262	16871	J Biol Chem	HCAPLUS
Bien, M	1995	43	108	Bull Polish Acad Sci	HCAPLUS
Bissonnette, L	1991	173	4493	J Bacteriol	HCAPLUS
Boeke, J	1984	197	345	Mol Gen Genet	HCAPLUS
Bolhuis, H	1996	15	4239	EMBO J	HCAPLUS
Bolhuis, H	1996	271	24123	J Biol Chem	HCAPLUS
Borst, P	1995	49	427	Ann Rev Microbiol	HCAPLUS
Bradford, M	1976	72	248	Anal Biochem	HCAPLUS
Breeden, L	1985	50	643	Cold Spring symposia	HCAPLUS
Carvajal, E	1997	256	406	Mol Gen Genet	HCAPLUS
Castro, A	1997	53	89	Biochem Pharmacol	HCAPLUS
Cohen, B	1992	1108	49	Biochem Biophys Acta	HCAPLUS
Como, J	1994	330	263	N Engl J Med	MEDLINE
Cui, Z	1996	271	14712	J Biol Chem	HCAPLUS
Decottignies, A	1994	269	12797	J Biol Chem	HCAPLUS
Decottignies, A	1995	270	18150	J Biol Chem	HCAPLUS
Decottignies, A	1997	15	137	Nature Genet	HCAPLUS
Del Sorbo, G	1997	254	417	Mol Gen Genet	HCAPLUS
Delahodde, A	1995	15	4043	Mol Cell Biol	HCAPLUS
Delaveau, T	1994	244	501	Mol Gen Genet	HCAPLUS
Desomer, J	1992	6	2377	Mol Microbiol	HCAPLUS
Doige, C	1993	47	291	Ann Rev Microbiol	HCAPLUS
Dudler, R	1992	267	5882	J Biol Chem	HCAPLUS
Edgar, R	1997	179	2274	J Bacteriol	HCAPLUS
Ehrenhofer-Murray, A	1994	244	287	Mol Gen Genet	HCAPLUS
Emr, S	1986	102	523	J Cell Biol	HCAPLUS
Gietz, R	1995	11	355	Yeast	HCAPLUS
Goffeau, A	1997	13	43	Yeast	HCAPLUS
Gompel-Klein, P	1990	18	93	Curr Genet	MEDLINE
Gottesman, M	1993	62	385	Ann Rev Biochem	HCAPLUS
Gottesman, M	1995	29	607	Ann Rev Genet	HCAPLUS
Hirata, D	1994	26	285	Curr Genet	HCAPLUS
Holt, J	1993	44	203	Ann Rev Plant Physio	HCAPLUS
Homolya, L	1993	268	21493	J Biol Chem	HCAPLUS
Josephhorne, T	1996	34	223	J Med Vet Mycol	MEDLINE
Josephhorne, T	1996	42	637	Phytochemistry	HCAPLUS
Katzmann, D	1996	271	23049	J Biol Chem	HCAPLUS
Katzmann, D	1995	15	6875	Mol Cell Biol	HCAPLUS

Kavallaris, M	1993	190	79	Biochem Biophys Res	HCAPLUS
Kean, L	1997	138	255	J Cell Biol	HCAPLUS
Kelly, S	1997	400	80	FEBS Lett	HCAPLUS
Kolaczowski, M	1996	271	31543	J Biol Chem	HCAPLUS
Kolaczowski, M	1997	76	219	Pharmacol Therap	HCAPLUS
Leonard, J	1994	38	2492	Antimicrob Agents Ch	
Leppert, G	1990	125	13	Genetics	HCAPLUS
Levchenko, A	1984	20	1088	Genetika	HCAPLUS
Mahe, Y	1996	20	109	Molec Microbiol	HCAPLUS
Meyers, S	1992	21	431	Curr Genet	HCAPLUS
Miller, J	1972		352	Experiments in molec	
Neu, H	1992	257	1064	Science	HCAPLUS
Nikaido, H	1994	264	382	Science	HCAPLUS
Nolte, F	1997	41	196	Antimicrob Agents Ch	HCAPLUS
Odds, F	1996	6	145	Int J Antimicrob Age	HCAPLUS
Ortiz, D	1997	272	15358	J Biol Chem	HCAPLUS
Parks, L	1985	111	333	Meth Enzymol	HCAPLUS
Paul, S	1996	35	13647	Biochemistry	HCAPLUS
Paul, S	1996	35	14003	Biochemistry	HCAPLUS
Paul, S	1996	93	6929	Proc Natl Acad Sci U	HCAPLUS
Paulsen, I	1996	60	575	Microbiol Rev	HCAPLUS
Prasad, R	1995	27	320	Curr Genet	HCAPLUS
Rank, G	1974	80	483	Genetics	
Rank, G	1976	144	281	Molec Gen Genet	HCAPLUS
Rubio, J	1996	12	135	Parasitol Today	HCAPLUS
Sanglard, D	1995	39	2378	Antimicrob Agents Ch	HCAPLUS
Sanglard, D	1996	40	2300	Antimicrob Agents Ch	HCAPLUS
Sanglard, D	1997	143	405	Microbiol	HCAPLUS
Schnappinger, D	1996	165	359	Arch Microbiol	HCAPLUS
Servos, J	1993	236	214	Mol Gen Genet	HCAPLUS
Shapiro, A	1997	53	587	Biochem Pharmacol	HCAPLUS
Sikorski, R	1989	122	19	Genetics	HCAPLUS
Smart, C		271	19351	J Biol Chem	HCAPLUS
Taiz, L	1991		318	Plant physiology	
Tomlin, C	1994			The pesticide manual	
van Helvoort, A	1996	87	507	Cell	HCAPLUS
van Veen, H	1996	93	10668	Proc Natl Acad Sci U	HCAPLUS
Vanden Bossche, H	1995		431	Modern selective fun	
Versantvoort, C	1994	48	1129	Biochem Pharmacol	HCAPLUS
Versantvoort, C	1993	68	939	Br J Cancer	HCAPLUS
Wang, W	1996	31	683	Plant Molec Biol	HCAPLUS
Wendler, F	1997	272	27091	J Biol Chem	HCAPLUS
Winston, F	1995	11	53	Yeast	HCAPLUS
Zhang, K	1996	52	1631	Biochem Pharmacol	HCAPLUS

L39 ANSWER 15 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1994:455993 HCAPLUS

DN 121:55993

TI Thiomarinol derivatives, and processes for their preparation

IN Takahashi, Shuji; Shiozawa, Hideyuki; Kagasaki, Takeshi; Ogawa, Kaneo; Kodama, Kentaro; Ishii, Akira; Fujimoto, Katsumi; Iwano, Yuji; Hirai, Koichi; et al.

PA Sankyo Co., Ltd., Japan

SO Can. Pat. Appl., 51 pp.

CODEN: CPXXEB

DT Patent

LA English

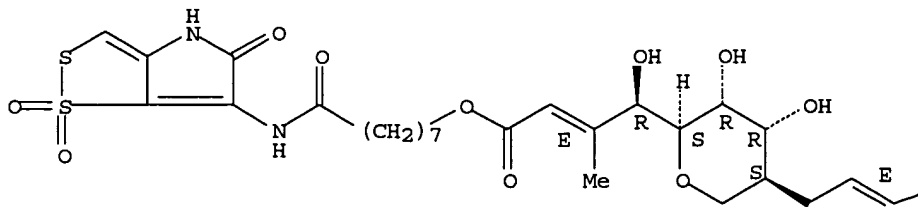
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CA---2106443	AA	19940319	1993CA-2106443	19930917 <--
	IL---107017	A1	19980104	1993IL-0107017	19930915 <--
	AU---9347379	A1	19940324	1993AU-0047379	19930916 <--
	AU---665860	B2	19960118		
	ZA---9306840	A	19940414	1993ZA-0006840	19930916 <--
	CZ---281324	B6	19960814	1993CZ-0001930	19930916 <--

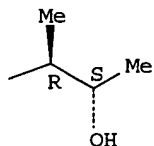
FI---	9304076	A	19940319	1993FI-0004076	19930917 <--
FI----	103055	B1	19990415		
NO---	9303328	A	19940321	1993NO-0003328	19930917 <--
EP---	595458	A1	19940504	1993EP-0307362	19930917 <--
EP----	595458	B1	19981125		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE					
JP--	06336487	A2	19941206	1993JP-0231332	19930917 <--
JP---	2532199	B2	19960911		
HU----	70185	A2	19950928	1993HU-0002629	19930917 <--
HU----	219380	B	20010328		
RU---	2101353	C1	19980110	1993RU-0053043	19930917 <--
AT---	173735	E	19981215	1993AT-0307362	19930917 <--
ES---	2125309	T3	19990301	1993ES-0307362	19930917 <--
CN---	1092811	A	19940928	1993CN-0119620	19930918 <--
CN---	1053446	B	20000614		
KR---	177839	B1	19990320	1993KR-0018972	19930918 <--
US---	5399711	A	19950321	1993US-0124396	19930920 <--
JP--	06199865	A2	19940719	1993JP-0273355	19931101 <--
JP---	3123864	B2	20010115		
JP--	06206884	A2	19940726	1993JP-0275108	19931104 <--
JP--	07094458	B4	19951011		
RU---	2089548	C1	19970910	1995RU-0107329	19950511 <--
FI---	9801359	A	19980612	1998FI-0001359	19980612 <--
FI----	105814	B1	20001013		
HK---	1006935	A1	20000519	1998HK-0106112	19980623 <--
PRAI	1992JP-0248970	A	19920918	<--	
	1992JP-0294170	A	19921102	<--	
	1992JP-0295695	A	19921105	<--	
AB	Two thiomarinol derivs., which have antibacterial and anti-mycoplasmal properties, are obtainable from microorganisms of the genus Alteromonas and are named thiomarinol B and thiomarinol C. Thiomarinol B can also be prepared by the oxidation of thiomarinol.				
IT	156098-42-9, Thiomarinol B 1 156098-43-0, Thiomarinol B 2 156343-39-4				
	RL: BIOL (Biological study)				
	(from Alteromonas, antibacterial and anti-mycoplasmal properties of)				
RN	156098-42-9 HCAPLUS				
CN	L-glycero-D-altro-Non-2-enonic acid, 5,9-anhydro-2,3,8-trideoxy-8-(5-hydroxy-4-methyl-2-hexenyl)-3-methyl-, 8-[(4,5-dihydro-1,1-dioxido-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)amino]-8-oxooctyl ester, [2E,8(2E,4R,5S)]-(9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (-).  
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

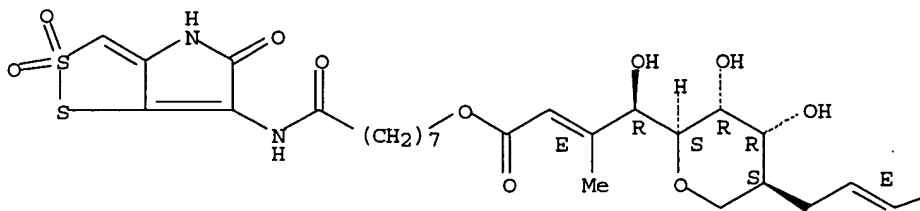


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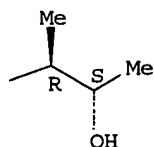
CN L-glycero-D-altro-Non-2-enonic acid, 5,9-anhydro-2,3,8-trideoxy-8-[(2E,4R,5S)-5-hydroxy-4-methyl-2-hexenyl]-3-methyl-, 8-[(4,5-dihydro-2,2-dioxido-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)amino]-8-oxooctyl ester, (2E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).  
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

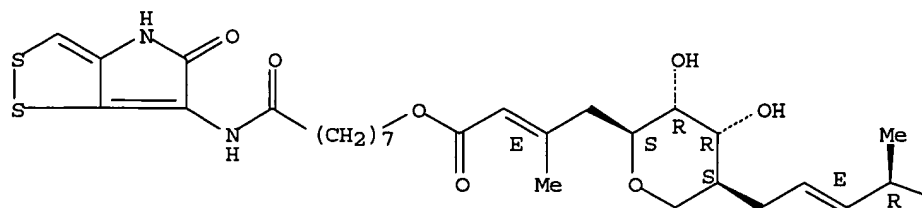


RN 156343-39-4 HCAPLUS

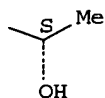
CN L-talo-Non-2-enonic acid, 5,9-anhydro-2,3,4,8-tetradecoxy-8-(5-hydroxy-4-methyl-2-hexenyl)-3-methyl-, 8-[(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)amino]-8-oxooctyl ester, [2E,8(2E,4R,5S)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.

PAGE 1-A



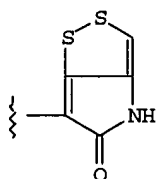
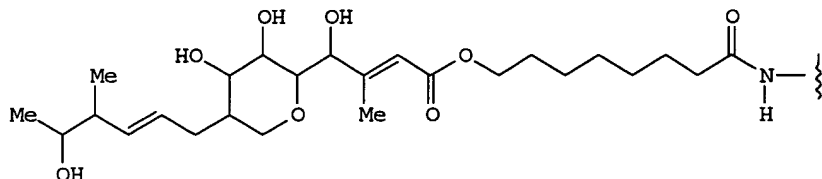
PAGE 1-B



L39 ANSWER 16 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1993:167606 HCAPLUS  
 DN 118:167606  
 TI Antibiotic thiomarinol manufacture with Alteromonas  
 IN Takahashi, Shuji; Shiozawa, Hideyuki; Haruyama, Hideyuki; Kagasaki,  
 Takeshi; Kodama, Kentaro; Ishii, Akira  
 PA Sankyo Co., Ltd., Japan  
 SO Eur. Pat. Appl., 13 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP---512824	A1	19921111	1992EP-0304105	19920507 <--
	EP---512824	B1	19950913		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
	AU---9216033	A1	19921112	1992AU-0016033	19920505 <--
	AU---646615	B2	19940224		
	ZA---9203242	A	19930127	1992ZA-0003242	19920505 <--
	IL---101786	A1	19950526	1992IL-0101786	19920505 <--
	CA---2068083	AA	19921108	1992CA-2068083	19920506 <--
	CA---2068083	C	20021112		
	NO---9201783	A	19921109	1992NO-0001783	19920506 <--
	NO---300736	B1	19970714		
	JP--05132486	A2	19930528	1992JP-0112934	19920506 <--
	JP--2766421	B2	19980618		
	RU---2077534	C1	19970420	1992RU-5052114	19920506 <--
	FI---100112	B1	19970930	1992FI-0002058	19920506 <--
	CN---1067921	A	19930113	1992CN-0104386	19920507 <--
	CN---1043786	B	19990623		
	HU---63197	A2	19930728	1992HU-0001526	19920507 <--
	HU---214738	B	20000328		
	CZ---279780	B6	19950614	1992CZ-0001392	19920507 <--
	ES---2079797	T3	19960116	1992ES-0304105	19920507 <--
	KR---139515	B1	19980601	1992KR-0007740	19920507 <--
	US---5292892	A	19940308	1993US-0002085	19930108 <--

US---5405762 A 19950411 1994US-0184225 19940119 <--  
 PRAI 1991JP-0101575 A 19910507 <--  
 1992US-0876500 B1 19920430 <--  
 1993US-0002085 A3 19930108 <--  
 GI



I

AB Thiomarinol (I) having structure similarity with pseudomonic acid is manufactured by culturing *A. rava*. *A. rava* SANK73390 isolated from seawater was shaken-cultured in a medium containing Marine Broth (product of Difco) for 23 h at 23°. From 60-L culture broth, I 750 mg was purified by extraction and chromatog. The antibacterial and antimycoplasmal activities of I were given. Also given were the morphol. and physiol. characteristics of *A. rava* SANK73390 and physicochem. characteristics of I.

IT 146697-04-3P

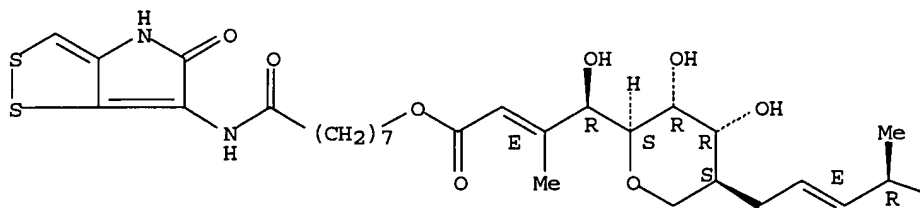
RL: BMF (Bioindustrial manufacture); BIOL (Biological study); PREP (Preparation)  
 (manufacture of, with *Alteromonas rava*)

RN 146697-04-3 HCAPLUS

CN L-glycero-D-altro-Non-2-enonic acid, 5,9-anhydro-2,3,8-trideoxy-8-(5-hydroxy-4-methyl-2-hexenyl)-3-methyl-, 8-[(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)amino]-8-oxooctyl ester, [2E,8(2E,4R,5S)]-(9CI) (CA INDEX NAME)

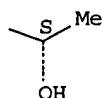
Absolute stereochemistry. Rotation (-).  
 Double bond geometry as shown.

PAGE 1-A





PAGE 1-B



L39 ANSWER 17 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1986:454609 HCAPLUS

DN 105:54609

TI Pyrrothine derivatives as allergy inhibitors

IN Stahl, Peter; Seidel, Hans; Von der Eltz, Herbert; Wilhelms, Otto Henning;  
Roesch, Androniki

PA Boehringer Mannheim G.m.b.H., Fed. Rep. Ger.

SO Ger. Offen., 12 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE---3434562	A1	19860327	1984DE-3434562	19840920 <--
	WO---8601716	A2	19860327	1985WO-EP00489	19850919 <--
	W: JP, US				
	RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
	EP---196330	A1	19861008	1985EP-0905323	19850919 <--
	EP---196330	B1	19920701		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	JP--62500453	T2	19870226	1985JP-0504734	19850919 <--
	AT-----77744	E	19920715	1985AT-0905323	19850919 <--
	US---4760077	A	19880726	1986US-0874170	19860515 <--
PRAI	1984DE-3434562	A	19840920	<--	
	1985EP-0905323	A	19850919	<--	
	1985WO-EP00489	W	19850919	<--	

OS CASREACT 105:54609; MARPAT 105:54609

GI For diagram(s), see printed CA Issue.

AB Pyrrothine derivs. I (R, R1 = H, Me; R2 = H, Me, C1-5 acyl; X, Y = H, cation, or XY = linkage) inhibit allergen-induced degranulation of peripheral leukocytes. For example, isobutyrylpyrrothine, thiolutin, and aureothricin inhibited allergen-induced degranulation of mouse leukocytes by 50% in vitro at  $1.7 \times 10^{-6}$ ,  $4 \times 10^{-7}$ , and  $9 \times 10^{-7}$  M, resp. These 3 compds. were obtained from culture filtrates of *Streptovorticillium thioluteum* DSM40027 and purified by extraction into EtOAc and chromatog. on silica gel. Thiolutin was converted by saponification and reduction to addnl. active compds.

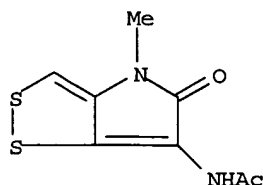
IT 87-11-6 574-95-8 39859-18-2

RL: BIOL (Biological study)

(allergy inhibition by)

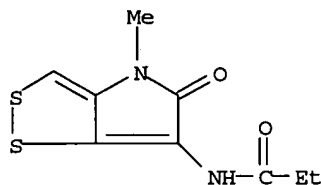
RN 87-11-6 HCAPLUS

CN Acetamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-  
(8CI, 9CI) (CA INDEX NAME)



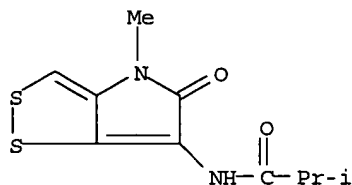
RN 574-95-8 HCAPLUS

CN Propanamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-  
(9CI) (CA INDEX NAME)



RN 39859-18-2 HCAPLUS

CN Propanamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-  
2-methyl- (9CI) (CA INDEX NAME)



L39 ANSWER 18 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1968:68029 HCAPLUS

DN 68:68029

TI Fungicide

PA Microbiochemical Research Foundation

SO Brit., 14 pp.

CODEN: BRXXAA

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB---1094567		19671213	1964GB-0048596	19641130 <--
	US---3856969		19741224	1965US-0436846	19650303 <--
PRAI	JP		19640623	<--	
	JP		19640626	<--	

AB One to three applications of 1.7 pints of 0.4% solution of kasugamycin (I) (from *Streptomyces kasugaensis*) per acre controls rice blast (*Piricularia oryzae*). Aureothricin, blasticidin S, phenylmercuric acetate and octadecyl thiocyanate act as synergists. I is more effective when applied after infection.

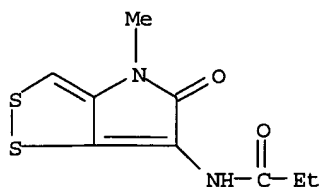
IT 574-95-8

RL: BIOL (Biological study)

(synergist with kasugamycin in rice blast control)

RN 574-95-8 HCAPLUS

CN Propanamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-  
(9CI) (CA INDEX NAME)



L39 ANSWER 19 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1963:11276 HCAPLUS

DN 58:11276

OREF 58:1886e-g

TI Holothin and its N-acyl derivatives

IN Gaeumann, Ernst; Prelog, Vladimir; Vischer, Ernst

PA CIBA Corp.

SO 7 pp.

DT Patent

LA Unavailable

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US---3014922		19611226	1959US-0828981	19590723 <--
PRAI	CH		19580725	<--	

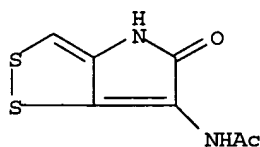
AB Holomycin (I) (CA 53, 14088g) was produced from the culture of a strain of *Sireptomyces griseus* on 1 l. of nutrient solution prepared from distillers' solubles 20, malt extract 20, NaNO<sub>3</sub> 1, and NaCl 5 g. at pH 7.5. Numerous other culture media also are described. The filter residue from the culture medium was extracted with acetone and added to the culture filtrate.

The solution was extracted with EtOAc. The extract was washed with H<sub>2</sub>O, concentrated, and extracted with 0.5N HOAc and 2N NaOH. Crude I was obtained by evaporation of the EtOAc solution and purified by chromatography on Al<sub>2</sub>O<sub>3</sub>, to give orange-yellow flakes m. 264-71°. A solution of 500 mg. of I in 25 cc. of dioxane refluxed for 45 min. with 5 cc. concentrated HCl gave greenish-black crystalline holothin-HCl (II), m. up to 300°. A solution of 133 mg. of II in 13 cc. H<sub>2</sub>O was treated with 2 cc. of Ac<sub>2</sub>O to give I. Similarly were prepared the propionyl derivative, m. 250-60° (decompose), and the N-butyryl derivative, m. 215-18°. A solution of 206 mg. of I in 70 cc. EtOH refluxed for 2 hrs. with 2 g. Raney Ni gave colorless 3-acetamido-5-methyl-2-pyrrolidinone, m. 188-9°. Infrared and ultraviolet spectra are given. Holothin and its lower acyl derivs. and salts may be used as medicaments.

IT 488-04-0, 1,2-Dithiolo[4,3-b]pyrrol-5(4H)-one, 6-acetamido-  
(manufacture by *Streptomyces griseus*)

RN 488-04-0 HCAPLUS

CN Acetamide, N-(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (8CI, 9CI) (CA INDEX NAME)

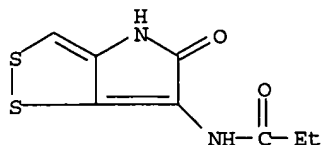


IT 4708-23-0, Propionamide, N-(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- 92659-44-4, Butyramide, N-(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-  
(preparation of)

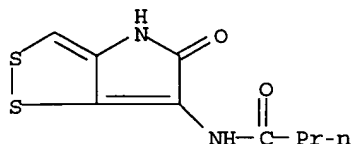
RN 4708-23-0 HCAPLUS

CN Propanamide, N-(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (9CI)

(CA INDEX NAME)



RN 92659-44-4 HCAPLUS

CN Butyramide, N-(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (7CI)  
(CA INDEX NAME)

L39 ANSWER 20 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1963:11275 HCAPLUS

DN 58:11275

OREF 58:1886c-e

TI Aspartocin

IN Shay, Anthony J.; Lowery, James A.; Bohanos, Nestor; Backus, Edward J.

PA American Cyanamid Co.

SO 8 pp.

DT Patent

LA Unavailable

FAN.CNT 1

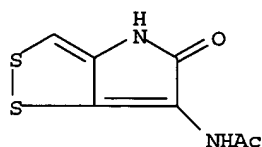
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US---3057779		19621009	US	19600314 <--
PRAI	US		19600314	<--	

AB *Streptomyces griseus* var. *spiralis* and *S. violaceus* var. *aspartocinicus* are cultivated in an aqueous medium containing molasses 20, corn starch 10, bactopectone 10, and CaCO<sub>3</sub> 1 g./l. at 28° for 24 to 240 hrs. with aeration and agitation to produce the antibiotic, aspartocin. The mycelium is removed from the culture broth by filtration at pH 5.0. Aspartocin is extracted from the mycelial cake with H<sub>2</sub>O at pH 1-2 and 9-10, and then back extracted into BuOH at pH 1-3. These BuOH exts. are adjusted to pH 5-6 and concentrated to 2-4% of their volume, causing the antibiotic to precipitate. The addition of salts such as CaCl<sub>2</sub> facilitate precipitation and (or) crystallization. Aspartocin is composed of C 53.58, H 7.58, N 13.58, S 0.36, and O 24.90 parts by weight and contains L-aspartic acid, L-proline, L-valine, and glycine in 4:1:1:2 molar ratio. It is soluble in H<sub>2</sub>O, MeOH, EtOH, BuOH, AcOH, and slightly soluble in Me<sub>2</sub>CO, EtOAc, and Et<sub>2</sub>O. The antibiotic is active against gram-pos. bacteria and is used to render cotton cloth bacteriostatic and to promote growth in chickens and pigs.

IT 488-04-0, 1,2-Dithiolo[4,3-b]pyrrol-5(4H)-one, 6-acetamido-  
(manufacture by *Streptomyces griseus*)

RN 488-04-0 HCAPLUS

CN Acetamide, N-(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (8CI,  
9CI) (CA INDEX NAME)



L39 ANSWER 21 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1962:438173 HCAPLUS  
 DN 57:38173  
 OREF 57:7678i,7679a  
 TI Antibiotics as preservatives for industrial materials  
 IN Ross, Sidney H.; Teitell, Leonard  
 PA U.S. Dept. of the Army  
 SO 2 pp.  
 DT Patent  
 LA Unavailable  
 FAN.CNT 1

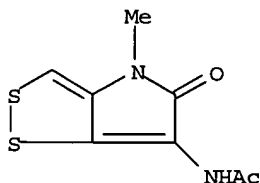
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US---3038819		19620612	1958US-0757167	19580825 <--
PRAI	US		19580825	<--	

AB The antibiotics tested, which had low skin-irritating properties to man, little or no deteriorating effect upon the products to which they were added, and reasonable amount of permanence, were endomycin, filipin, fungichromin, thiolutin, and rimocidin. A  $\leq 2\%$  solution was used. The antibiotics were tested by (1) determination of strength of paper impregnated with the antibiotics after being buried, (2) inhibition of fungal growth in castor oil, and (3) determining resistance to fungal growth of glue-bonded corks impregnated with the antibiotics.

IT 87-11-6, 1,2-Dithiolo[4,3-b]pyrrol-5(4H)-one, 6-acetamido-4-methyl- (in preservation of industrial materials)

RN 87-11-6 HCAPLUS

CN Acetamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (8CI, 9CI) (CA INDEX NAME)



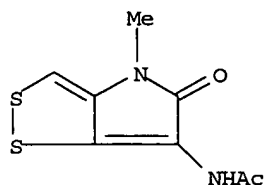
L39 ANSWER 22 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1957:83247 HCAPLUS  
 DN 51:83247  
 OREF 51:15062d-f  
 TI Inhibition of microbiological growth in beer  
 IN Bockelmann, John B.; Standskov, Frede B.  
 PA F. & M. Schaefer Brewing Co.  
 DT Patent  
 LA Unavailable  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US---2798811		19570709	1953US-0369959	19530723 <--

AB Antibiotics are added to finished beer to inhibit microbiol. spoilage. Addition of 5  $\gamma$ /ml. thiolutin and either 5  $\gamma$ /ml. penicillin or 5  $\gamma$ /ml. polymyxin prevented the growth of bacteria and yeasts in

unpasteurized beer during 9 weeks incubation at 75°F. As little as 3 γ/ml. thiolutin plus 1 γ/ml. polymixin was effective. Yeasts and gram-pos. rods and cocci grew in unpasteurized beer containing 5 γ/ml. thiolutin alone or in combination with 5 γ/ml. bacitracin, subtilin, streptomycin, dihydrostreptomycin, or Terramycin. Gram-pos. bacteria but no yeast developed in beer containing 3 γ/ml. thiolutin and 0.3, 0.1, or 0.03 γ/ml. polymixin. Inhibition of growth of *Lactobacillus pastorianus*, *Pediococcus damnosus*, and secondary yeast in beer is specifically claimed.

IT 87-11-6, 1,2-Dithiolo[4,3-b]pyrrol-5(4H)-one, 6-acetamido-4-methyl-  
(microorganism control in beer with)  
RN 87-11-6 HCAPLUS  
CN Acetamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-  
(8CI, 9CI) (CA INDEX NAME)



L39 ANSWER 23 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1957:43547 HCAPLUS

DN 51:43547

OREF 51:8152i,8153a-b,8154a

TI Dioxopregnanespirothiazolidine

IN Fonken, Gunther S.; Hogg, John A.

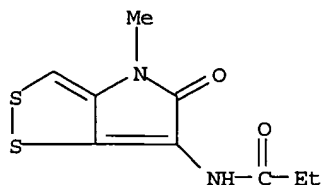
PA Upjohn Co.

DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US---2776967	---	19570108	1955US-0533236	19550908 <--
OS	CASREACT 51:43547				
AB	Safe and effective H <sub>2</sub> O-soluble central nervous system depressants with prolonged pharmacodynamic effect are provided by 11,20-dioxo-5α(or β)-pregnane-3-spiro(2-thiazolidine-4-carboxylic acids) and their salts with a pharmacologically acceptable inorg. or organic cation. Cysteine HCl (4.39 g.) and 2.8 g. AcOK in 40 ml. H <sub>2</sub> O made up to 80 ml. with 95% alc., the solution stirred overnight with 9 g. 5β-pregnane-3,11,20-trione in 350 ml. 95% alc. at room temperature, refluxed 8 hrs. with stirring, kept overnight at room temperature, filtered, and the residue washed with H <sub>2</sub> O and dried at 50° in vacuo gave 7.3 g. 11,20-dioxo-5β-pregnane-3-spiro-(2-thiazolidine-4-carboxylic acid) (I), m. 155-60° (decomposition). I (7.3 g.) in 50 ml. H <sub>2</sub> O stirred with addition of about 140 ml. 0.1N NaOH to pH 8.1 (pH meter), the cloudy solution filtered through diatomaceous earth, and the filtrate lyophilized yielded 90% I Na salt. Similarly, 5α-pregnane-3,11,20-trione was converted to 11,20-dioxo-5α-pregnane-3-spiro-(2-thiazolidine-4-carboxylic acid) (II) and its Na salt. Possible basic amines suitable as organic cations for combination with I and II are listed.				
IT	574-95-8, Propionamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (preparation of)				
RN	574-95-8 HCAPLUS				
CN	Propanamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (9CI) (CA INDEX NAME)				



L39 ANSWER 24 OF 24 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1957:9711 HCAPLUS

DN 51:9711

OREF 51:2084c-d

TI Antimicrobial agents

IN Celmer, Walter D.

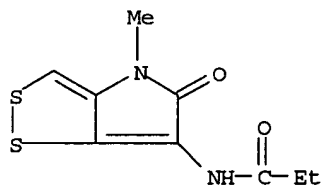
PA Chas. Pfizer & Co., Inc.

DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US---2752359		19560626	1952US-0313349	19521006 <--
AB	Acetopyrrothine (I) (C.A. 48, 14133c) is hydrolyzed by a strong inorg. acid in a 2-phase organic solvent-aqueous system. I in dioxane refluxed with concentrated HCl 0.5 hr., filtered, dried, recrystd., and further purified yields pyrrothine-HCl-H <sub>2</sub> O (II), pKa 2.9, λ 226,309,381 mμ. II further treated with NH <sub>3</sub> in HCCl <sub>3</sub> , filtered, precipitated with hexane, filtered off, and dried gave the free base. Propionopyrrothine and I are prepared from II and EtCOCl or AcCl in CHCl <sub>3</sub> .				
IT	574-95-8, Propionamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-(preparation of)				
RN	574-95-8 HCAPLUS				
CN	Propanamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-(9CI) (CA INDEX NAME)				



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L40 ANSWER 1 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA65:20520g CAOLD

TI field evaluation of antibiotics and chemicals for control of oak wilt in northern pin oaks

AU Phelps, William R.; Kuntz, J. E.; Ross, A.

IT 83-28-3 86-75-9 87-11-6 87-51-4 88-89-1  
123-31-9 126-07-8 142-59-6 298-39-5 480-49-9 536-69-6  
548-62-9 569-64-2 581-96-4 1393-88-0 1404-22-4 1404-88-2  
1508-62-9 2322-08-9 3182-79-4 3428-71-5 4135-11-9 4696-62-2  
6436-90-4 7091-57-8 11016-19-6 13038-52-3 15399-01-6 15902-69-9  
22862-76-6

L40 ANSWER 2 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA65:5910b CAOLD

TI effect of antibiotics on growth of Mycoplasma pneumoniae

AU Arai, Sumio; Yoshida, K.; Izawa, A.; Kumagai, K.; Ishida, N.

IT 574-95-8 1695-77-8 11017-43-9 17650-86-1 19721-56-3  
24751-69-7

L40 ANSWER 3 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA65:3668c CAOLD

TI classification and identification of antifungal antibiotics by chromatographic spectra

AU Khokhlova, Yu. M.; Puchnina, A. V.; Oparysheva, E. F.; Golovkina, L. M.; Blinov, N. O.

IT 67-99-2 126-07-8 141-35-5 478-05-7 480-49-9 481-39-0  
483-60-3 522-70-3 574-95-8 606-58-6 1218-74-2  
1362-89-6 1405-90-9 1438-30-8 3306-52-3 3459-16-3 5822-34-4  
6833-84-7 7182-54-9 7561-71-9 11013-29-9 13058-67-8 20261-85-2  
20350-15-6 54003-27-9

L40 ANSWER 4 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA64:6632g CAOLD

TI reaction of butyramidine with epoxides-preparation of 2-propyl-2-oxazolines

AU Lambert, Rogers F.; Kristofferson, C. E.

IT 107-90-4 3020-81-3 4694-77-3 4694-78-4  
4694-80-8 4694-81-9 4694-83-1 4694-85-3 4694-86-4 4694-87-5  
4743-03-7 6076-95-5 90204-36-7

L40 ANSWER 5 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA64:6632e CAOLD

TI synthetic thiolution analogs

AU Bhate, Dattatraya S.; Sambray, Y. M.

IT 4694-74-0 4694-75-1 4694-76-2 5002-87-9  
13366-07-9

L40 ANSWER 6 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA64:2451h CAOLD

TI biotransformation of thiolutin production from Streptomyces pimprina to S. aureofaciens

AU Ramachandran, Suryanarayan; Sukapure, R. S.; Thirumalachar, M. J.

IT 87-11-6

L40 ANSWER 7 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA63:3359f CAOLD

TI antibiotic inhibition of algal growth

AU Perlman, David



IT 67-99-2 87-11-6 125-65-5 126-07-8 127-33-3  
 303-81-1 480-49-9 483-60-3 490-02-8 497-72-3 518-75-2  
 1086-03-9 1121-30-8 6377-18-0 13058-67-8 17650-86-1 20283-48-1  
 31282-04-9

L40 ANSWER 8 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA62:5261d CAOLD

TI synthesis of holomycin

AU Buechi, George; Lukas, G.

IT 488-04-0 701-14-4 703-25-3 708-22-5 731-56-6  
 731-57-7 735-18-2 735-91-1 735-92-2 735-93-3 737-33-7  
 737-93-9 746-17-8 746-18-9 746-19-0 746-20-3 746-21-4  
 747-57-9 747-63-7 748-98-1 750-06-1 889-39-4 981-26-0  
 983-03-9 3473-27-6 92248-75-4

L40 ANSWER 9 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA61:8857d CAOLD

TI identification by x-ray powder diffraction of thiolutin and aureothricin isolated by paper chromatography

AU Martin, John Henry; Groth, W. C.; Hausmann, W. K.

IT 87-11-6 574-95-8

L40 ANSWER 10 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA61:3084f CAOLD

TI total synthesis of the antibiotics, thiolutin and holomycin - (II) introduction of mercapto groups into pyrrolones

AU Schmidt, Ulrich

IT 87-11-6 488-04-0 5202-78-8

L40 ANSWER 11 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA60:14853f CAOLD

TI biosynthesis of thiolutin

AU Brink, Robert H., Jr.

IT 87-11-6

L40 ANSWER 12 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA60:1539c CAOLD

TI application of thin-layer chromatography for separation and identification of antibiotics

AU Ikekawa, Tetsuro; Iwami, F.; Akita, E.; Umezawa, H.

IT 87-11-6 299-20-7 522-70-3 539-35-5  
 574-95-8 1404-80-4 3552-16-7 6379-56-2 6834-98-6  
 12656-40-5 19721-56-3 54003-27-9

L40 ANSWER 13 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA59:6374h CAOLD

TI total synthesis of the antibiotics thiolutin and holomycin

AU Schmidt, Ulrich; Geiger, F.

IT 87-11-6 488-04-0 17771-36-7 17771-37-8  
 17771-38-9 17958-78-0 40647-81-2 40970-25-0 40970-28-3 40970-29-4  
 61040-21-9 82031-42-3 86247-90-7 89531-66-8 89896-91-3 90345-39-4  
 90438-00-9 90612-05-8 90770-46-0 91013-69-3 91558-95-1 91807-18-0  
 92369-67-0 92576-32-4 92851-68-8 93041-65-7 93139-36-7 93262-81-8  
 93427-67-9 93689-26-0 94000-31-4 94488-37-6 94501-89-0 94584-10-8  
 95591-82-5 95875-90-4 95937-27-2 96775-79-0 96792-79-9 96951-63-2  
 97236-85-6 97525-12-7 97525-48-9 98000-64-7 98529-76-1 100152-96-3  
 106599-90-0

L40 ANSWER 14 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA58:10185a CAOLD

TI synthesis of holomycin

AU Buechi, George; Lukas, G.

IT 488-04-0 731-57-7 735-92-2 735-93-3 748-04-9  
 750-06-1 92248-75-4

L40 ANSWER 15 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA58:4836f CAOLD  
 TI disk testing of drugs against planted *Trichomonas vaginalis*  
 AU Samuels, Robert; Stouder, D. J.  
 IT 72-80-0 79-90-3 87-11-6 140-40-9 140-63-6  
 483-57-8 523-86-4 908-54-3 1122-04-9 2948-69-8 3034-42-2  
 3063-72-7 3697-42-5 3810-35-3 4214-76-0 6834-98-6 16243-72-4  
 21478-97-7 51419-40-0 64724-83-0 95874-78-5 102218-77-9 106215-85-4

L40 ANSWER 16 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA58:1886e CAOLD  
 TI holothin and its N-acyl derivs.  
 AU Gaeumann, Ernst; Prelog, V.; Vischer, E.  
 PA CIBA Corp.  
 DT Patent

PATENT NO.	KIND	DATE
US---3014922		1961
488-03-9	488-04-0	4708-23-0 90993-81-0
91912-34-4	92659-44-4	

L40 ANSWER 17 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA57:15607f CAOLD  
 TI inhibition by antibiotics of the growth of bacterial and yeast protoplasts  
 AU Shockman, Gerald D.; Lampen, J. O.  
 IT 87-11-6 534-76-9 738-72-7 2504-55-4

L40 ANSWER 18 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA57:11180f CAOLD  
 TI total synthesis of the antibiotics thiolutin, aureothricin, and holomycin  
 AU Schmidt, Ulrich; Geiger, F.  
 IT 87-11-6 488-04-0 574-95-8

L40 ANSWER 19 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA57:7678i CAOLD  
 TI antibiotics as preservatives for industrial materials  
 AU Ross, Sidney H.; Teitell, L.  
 PA United States Dept. of the Army  
 DT Patent  
 TI fungicide  
 AU Boogaart, Krijn van den  
 DT Patent  
 IT 87-11-6 5822-83-3 6834-98-6 93262-47-6 94215-21-1  
 95594-24-4 96677-92-8 97620-07-0 98905-45-4 101474-14-0 101675-85-8  
 106065-95-6

L40 ANSWER 20 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA57:5254f CAOLD  
 TI application of nonionic surface-active agents to the antibacterial test  
 AU Watanabe, Hiroshi; Otani, S.; Uehara, T.; Uehara, R.  
 IT 574-95-8

L40 ANSWER 21 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA56:5208c CAOLD  
 TI sensitivity of *Schizophyllum commune* to chemical toxicants  
 AU Parag, Yair  
 IT 67-99-2 87-11-6 483-60-3 21802-37-9 106172-27-4

L40 ANSWER 22 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA55:27768a CAOLD  
 TI holomycin  
 AU Gaeumann, Ernst; Prelog, V.; Vischer, E.  
 PA CIBA Ltd.  
 DT Patent

PATENT NO.	KIND	DATE
DE---1085297		

IT 488-04-0

L40 ANSWER 23 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA55:14796i CAOLD  
 TI antibiotics as seed protectants  
 AU Kruger, W.  
 IT 87-11-6 3428-71-5 15399-01-6 15902-69-9 22862-76-6

L40 ANSWER 24 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA55:11532f CAOLD  
 TI enzymic metabolism of Streptomyces griseus - (III) phosphatasic activity,  
 (IV) lipasic activity  
 AU Otero Abalo, Ramon; Regueiro Varela, B.  
 IT 87-11-6

L40 ANSWER 25 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA55:11532e CAOLD  
 TI isolation of isobutyropyrrrothine along with thiolutin and Aureothricin  
 from a Streptomyces spp.  
 AU Bhate, D. S.; Hulyalkar, R. K.; Menon, S. K.  
 IT 574-95-8 39859-18-2

L40 ANSWER 26 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA55:1787g CAOLD  
 TI antibiotic sensitivity of Leptospira as measured by loss of motility  
 AU Goldberg, Herbert S.; Logue, J. T.  
 IT 87-11-6

L40 ANSWER 27 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA55:679f CAOLD  
 TI antibiotics - (V) simultaneous production of aureothricin and thiolutin by  
 Streptomyces spp.  
 AU Nakamura, Michikazu; Terao, M.; Akabori, H.  
 IT 87-11-6 574-95-8

L40 ANSWER 28 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA54:25543h CAOLD  
 TI pesticidal P esters  
 AU Willard, Joe R.; Henahan, J. F.  
 DT Patent  
 TI  $\beta$ -hydroxyethyl-N- $\beta$ -hydroxyethylcarbazinate and its use in  
 promoting flowering of pineapple plants  
 PA Olin Mathieson Chemical Corp.  
 DT Patent  

PATENT NO.	KIND	DATE
-----	-----	----

 PI GB----839734  
 IT 87-11-6

L40 ANSWER 29 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA54:15563f CAOLD  
 TI influence of Mg, K, and N nutrition on phosphoenolpyruvate-stimulated CO2  
 fixation  
 AU Thomas, Grant W.; Coleman, N. T.; Jackson, W. A.  
 IT 87-11-6 115-02-6

L40 ANSWER 30 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA54:13268a CAOLD  
 TI antibiotics against plant disease - (VI) determining the effects of chems. on  
 germination of bean-rust uredospores  
 AU Pridham, Thomas G.; Sharpe, E. S.; Kemp, C. E.  
 IT 87-11-6

L40 ANSWER 31 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA53:22462g CAOLD  
 TI snake venom from Trimeresurus flavoviridis - (I) nature of the venom and

the therapy  
 AU Mihashi, Susumu; Ogonoki, T.; Sawai, Y.  
 IT 574-95-8

L40 ANSWER 32 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA53:14088g CAOLD  
 TI metabolic products from actinomycetes - (XVII) holomycin  
 AU Ettlinger, Leopold; Gauemann, E.; Huetter, R.; Keller-Schierlein, W.;  
 Kradolfer, F.; Neipp, L.; Prelog, V.; Zaehner, H.  
 IT 87-11-6 488-03-9 488-04-0 574-95-8  
 4708-23-0 82518-90-9 90993-81-0 91912-34-4 98428-71-8  
 98594-00-4 100611-25-4 100911-41-9 112843-01-3

L40 ANSWER 33 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA53:12390g CAOLD  
 TI determination of a mixture of thiolutin and aureothricin by infrared  
 spectrophotometry  
 AU Ito, Akira; Amakasu, O.  
 IT 87-11-6 574-95-8

L40 ANSWER 34 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA53:7313d CAOLD  
 TI antibiotic substances - (IV) crystalline toxic substance of Streptomyces  
 thioluteus producing aureothricin  
 AU Maeda, Kenji  
 IT 574-95-8

L40 ANSWER 35 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA53:7313a CAOLD  
 TI yellow crystalline antibiotic, identical with aureothricin, isolated from a new  
 species of Streptomyces 39a-taxonomic study  
 AU Nishimura, Haruo; Kimura, T.; Kuroya, M.  
 IT 574-95-8

L40 ANSWER 36 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA52:13087c CAOLD  
 TI effects of actinomycetes products on the culture of human carcinoma cells  
 - (I) effect of antibiotics having no or slight tumor-inhibitory activity  
 on HeLa cells, (II) of antitumor antibiotics on HeLa cells  
 AU Nitta, Kazuo  
 IT 574-95-8 1397-95-1 2072-68-6

L40 ANSWER 37 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA52:12299b CAOLD  
 TI effects of an C2H4 chloride and trichloroethane mixture on 3 citrus-fruit  
 pathogens  
 AU Berry, S. Z.  
 IT 87-11-6 534-76-9

L40 ANSWER 38 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA52:637i CAOLD  
 TI control of downy mildew of broccoli with antibiotics and fungicides  
 AU Natti, John J.  
 IT 87-11-6 6834-98-6 22862-76-6

L40 ANSWER 39 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN  
 AN CA51:15860c CAOLD  
 TI fertilizer  
 AU Kurinishi, Kiyoshi; et al.  
 PA Nissan Chemical Industries, Ltd.  
 DT Patent

PATENT NO.	KIND	DATE
JP--55005265		1955
IT 87-11-6	101-21-3	101-99-5
3811-73-2	5416-67-1	5416-68-2
		6834-98-6
		7399-80-6
		7495-80-9

14915-37-8 32255-90-6 73622-98-7 90206-63-6 99359-86-1 100116-75-4  
 101878-32-4 102076-61-9 102702-25-0 106320-92-7 106596-17-2 107520-53-6  
 112352-60-0 113224-02-5

L40 ANSWER 40 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA51:15062d CAOLD

TI inhibition of microbiol. growth in beer

AU Bockelmann, John B.; Strandskon, F. B.

PA Schaefer, F. & M., Brewing Co.

DT Patent

PATENT NO.	KIND	DATE
SU----	105592	
US---	2798811	1957
IT	87-11-6	

PI SU----

PI US---

IT 87-11-6

L40 ANSWER 41 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA51:9814d CAOLD

TI photosynthetic reaction - (III) effects of various inhibitors on growth and carbonate-fixation in *Chlorella pyrenoidosa*

AU Tomisek, Arthur J.; Reid, M. R.; Short, W. A.; Skipper, H. E.

IT 67-99-2 87-11-6 107-36-8 115-02-6 539-35-5

611-08-5 4378-70-5 10296-76-1 114281-92-4

L40 ANSWER 42 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA51:9701e CAOLD

TI N-acyl derivs. of deacetylthiolutin

PA Pfizer, Chas., & Co., Inc.

DT Patent

TI resolution of N-acyl-DL-tryptophans

PA U C L A F

DT Patent

PATENT NO.	KIND	DATE
GB----	745097	
GB----	755968	
IT	5002-87-9	14172-52-2 16108-03-5 109478-45-7
	109504-07-6	112841-90-4 116082-76-9

PI GB----

PI GB----

IT 5002-87-9

109504-07-6 112841-90-4 116082-76-9

L40 ANSWER 43 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA51:8154a CAOLD

TI antimicrobial agents

PA Pfizer, Chas., & Co., Inc.

DT Patent

TI hydrocortisone 21-tert-butylacetate

PA Merck & Co., Inc.

DT Patent

PATENT NO.	KIND	DATE
GB----	753331	
GB----	765505	
IT	508-96-3	574-95-8 642-77-3

PI GB----

PI GB----

IT 508-96-3

574-95-8 642-77-3

L40 ANSWER 44 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA51:3080i CAOLD

TI deratting procedures and anticoagulants

AU Hachet, M. P.

IT 81-82-3 87-11-6 94-18-8 99-11-6 483-55-6

548-00-5 4195-02-2 4767-00-4 67554-50-1

L40 ANSWER 45 OF 45 HCAOLD COPYRIGHT 2006 ACS on STN

AN CA51:2084c CAOLD

TI antimicrobial agents

AU Celmer, Walter D.

PA Pfizer, Chas., & Co., Inc.

DT Patent

	PATENT NO.	KIND	DATE
PI	US---2752359		1956
IT	574-95-8	642-77-3	4682-70-6

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FILE 'REGISTRY' ENTERED AT 10:33:46 ON 27 SEP 2006  
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DICTIONARY FILE UPDATES: 26 SEP 2006 HIGHEST RN 908803-03-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

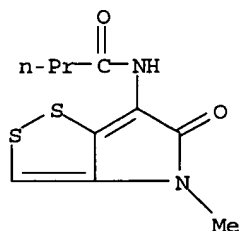
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conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d ide can l41 tot

L41 ANSWER 1 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 112843-01-3 REGISTRY  
ED Entered STN: 13 Feb 1988  
CN Butanamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-  
(9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Butyramide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-  
(6CI)  
MF C10 H12 N2 O2 S2  
SR CAOLD  
LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS  
(\*File contains numerically searchable property data)

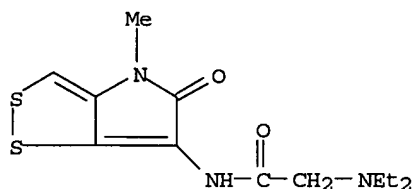


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5 REFERENCES IN FILE CA (1907 TO DATE)  
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 145:270098  
 REFERENCE 2: 138:88690  
 REFERENCE 3: 138:86345  
 REFERENCE 4: 123:193172  
 REFERENCE 5: 53:77769

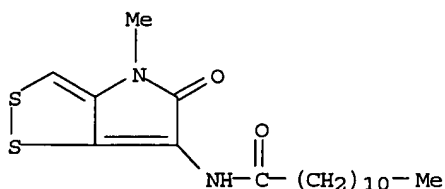
L41 ANSWER 2 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 112841-90-4 REGISTRY  
 ED Entered STN: 13 Feb 1988  
 CN 1,2-Dithiolo[4,3-b]pyrrol-5(4H)-one, 6-(2-diethylaminoacetamido)-4-methyl-  
 (6CI) (CA INDEX NAME)  
 MF C12 H17 N3 O2 S2  
 SR CAOLD  
 LC STN Files: CAOLD



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L41 ANSWER 3 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 109504-07-6 REGISTRY  
 ED Entered STN: 01 Aug 1987  
 CN Dodecanamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (6CI) (CA INDEX NAME)  
 MF C18 H28 N2 O2 S2  
 SR CAOLD  
 LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS  
 (\*File contains numerically searchable property data)



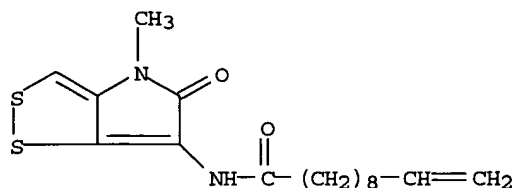
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 51:52108  
 REFERENCE 2: 51:52107

L41 ANSWER 4 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN

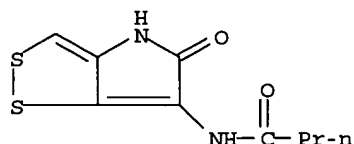
RN 109478-45-7 REGISTRY  
 ED Entered STN: 25 Jul 1987  
 CN 10-Undecenamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (6CI) (CA INDEX NAME)  
 MF C17 H24 N2 O2 S2  
 SR CAOLD  
 LC STN Files: CAOLD



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L41 ANSWER 5 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 92659-44-4 REGISTRY  
 ED Entered STN: 17 Dec 1984  
 CN Butyramide, N-(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (7CI)  
 (CA INDEX NAME)  
 MF C9 H10 N2 O2 S2  
 LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

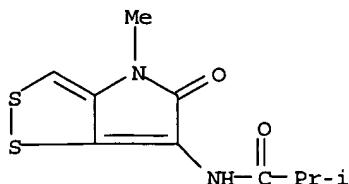
2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 58:11276

REFERENCE 2: 53:77769

L41 ANSWER 6 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 39859-18-2 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Propanamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-2-methyl- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 1,2-Dithiolo[4,3-b]pyrrole, propanamide deriv.  
 CN Propionamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-2-methyl- (6CI)  
 MF C10 H12 N2 O2 S2  
 LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, USPATFULL  
 (\*File contains numerically searchable property data)





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

8 REFERENCES IN FILE CA (1907 TO DATE)  
 8 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 145:270098

REFERENCE 2: 138:88690

REFERENCE 3: 138:86345

REFERENCE 4: 118:22076

REFERENCE 5: 105:54609

REFERENCE 6: 94:97054

REFERENCE 7: 78:57238

REFERENCE 8: 55:59998

L41 ANSWER 7 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN

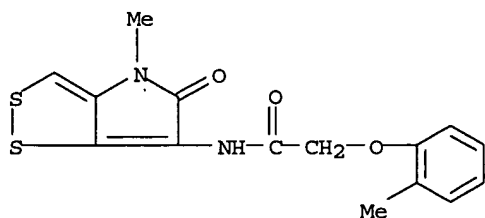
RN 4743-03-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1,2-Dithiolo[4,3-b]pyrrol-5(4H)-one, 4-methyl-6-[2-(o-tolyloxy)acetamido]-  
 (7CI, 8CI) (CA INDEX NAME)

MF C15 H14 N2 O3 S2

LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 64:35826

L41 ANSWER 8 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN

RN 4708-23-0 REGISTRY

ED Entered STN: 16 Nov 1984

CN Propanamide, N-(4-,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (9CI)

(CA INDEX NAME)

OTHER CA INDEX NAMES:

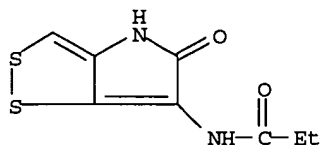
CN 1,2-Dithiolo[4,3-b]pyrrole, propanamide deriv.

CN Propionamide, N-(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (6CI, 7CI, 8CI)

MF C8 H8 N2 O2 S2

LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS

(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 87:3961

REFERENCE 2: 58:11276

REFERENCE 3: 53:77769

L41 ANSWER 9 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN

RN 4694-78-4 REGISTRY

ED Entered STN: 16 Nov 1984

CN Acetamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-2-(4-methylphenoxy)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

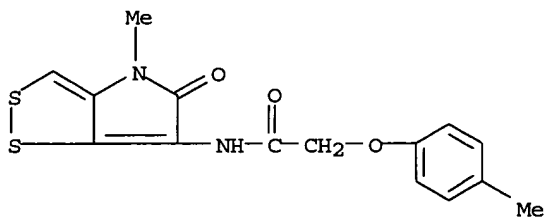
CN 1,2-Dithiolo[4,3-b]pyrrol-5(4H)-one, 4-methyl-6-[2-(p-tolyloxy)acetamido]- (7CI)

CN 1,2-Dithiolo[4,3-b]pyrrole, acetamide deriv.

MF C15 H14 N2 O3 S2

LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, TOXCENTER

(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

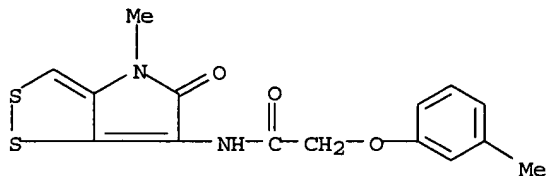
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 64:35826

L41 ANSWER 10 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN

RN 4694-77-3 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Acetamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-2-(3-methylphenoxy)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 1,2-Dithiolo[4,3-b]pyrrol-5(4H)-one, 4-methyl-6-[2-(m-tolyloxy)acetamido]- (7CI)  
 CN 1,2-Dithiolo[4,3-b]pyrrole, acetamide deriv.  
 MF C15 H14 N2 O3 S2  
 LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)

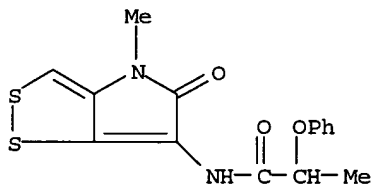


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1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 64:35826

L41 ANSWER 11 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 4694-76-2 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Propionamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-2-phenoxy- (7CI, 8CI) (CA INDEX NAME)  
 MF C15 H14 N2 O3 S2  
 LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

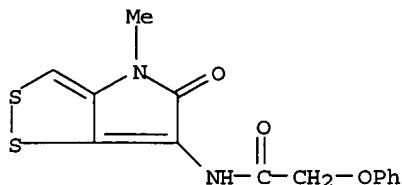
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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 64:35826

L41 ANSWER 12 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 4694-75-1 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Acetamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-2-phenoxy- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 1,2-Dithiolo[4,3-b]pyrrol-5(4H)-one, 4-methyl-6-(2-phenoxyacetamido)-

(7CI)

CN 1,2-Dithiolo[4,3-b]pyrrole, acetamide deriv.  
 MF C14 H12 N2 O3 S2  
 LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)

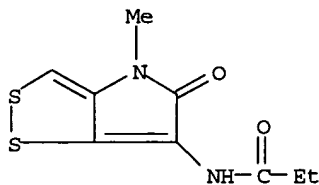


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 64:35826

L41 ANSWER 13 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 574-95-8 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Propanamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-  
 (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 1,2-Dithiolo[4,3-b]pyrrole, propanamide deriv.  
 CN Propionamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-  
 (6CI, 7CI, 8CI)  
 OTHER NAMES:  
 CN 5-Methyl-3-propionamidopyrrolin-4-one-[4,3-d]-1,2-dithiole  
 CN Aureothricin  
 MF C9 H10 N2 O2 S2  
 LC STN Files: AGRICOLA, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS,  
 CASREACT, DDFU, DRUGU, EMBASE, MEDLINE, MRCK\*, NAPRALERT, TOXCENTER,  
 USPATFULL  
 (\*File contains numerically searchable property data)



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 16 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

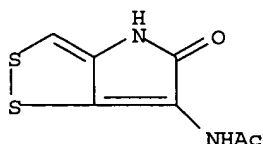
REFERENCE 1: 143:307

REFERENCE 2: 136:256811

REFERENCE 3: 118:22076

REFERENCE 4: 114:58626  
REFERENCE 5: 114:38974  
REFERENCE 6: 109:190434  
REFERENCE 7: 109:291  
REFERENCE 8: 108:142509  
REFERENCE 9: 106:116224  
REFERENCE 10: 105:54609

L41 ANSWER 14 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 488-04-0 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Acetamide, N-(4,5-dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)- (8CI, 9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 1,2-Dithiolo[4,3-b]pyrrol-5(4H)-one, 6-acetamido- (6CI, 7CI)  
CN 1,2-Dithiolo[4,3-b]pyrrole, acetamide deriv.  
OTHER NAMES:  
CN 1,2-Dithiolo[4,3-b]pyrrol-5(4H)-one, 6-(acetylamino)-  
CN Holomycin  
CN N-(4,5-Dihydro-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)acetamide  
MF C7 H6 N2 O2 S2  
LC STN Files: AGRICOLA, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, DDFU, DRUGU, EMBASE, MEDLINE, MRCK\*, NAPRALERT, RTECS\*, TOXCENTER  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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21 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 144:205230  
REFERENCE 2: 143:307  
REFERENCE 3: 138:253753  
REFERENCE 4: 134:219584  
REFERENCE 5: 134:53745  
REFERENCE 6: 118:22076  
REFERENCE 7: 91:71451  
REFERENCE 8: 87:117801  
REFERENCE 9: 87:3961

REFERENCE 10: 81:152065

L41 ANSWER 15 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN

RN 87-11-6 REGISTRY

ED Entered STN: 16 Nov 1984

CN Acetamide, N-(4,5-dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)-(8CI, 9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,2-Dithiolo[4,3-b]pyrrol-5(4H)-one, 6-acetamido-4-methyl- (6CI, 7CI)

CN 1,2-Dithiolo[4,3-b]pyrrole, acetamide deriv.

OTHER NAMES:

CN 3-Acetamido-5-methylpyrrolin-4-one[4,3-d]-1,2-dithiole

CN Acetopyrrothin

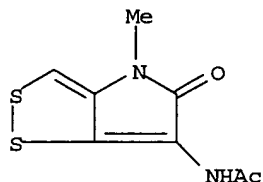
CN N-(4,5-Dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)acetamide

CN NSC 3927

CN Thiolutin

MF C8 H8 N2 O2 S2

LC STN Files: AGRICOLA, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CSCHM, DDFU, DRUGU, EMBASE, MEDLINE, MRCK\*, NAPRALERT, RTECS\*, TOXCENTER, USPATFULL  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

120 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

120 REFERENCES IN FILE CAPLUS (1907 TO DATE)

28 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 145:270098

REFERENCE 2: 143:307

REFERENCE 3: 142:32916

REFERENCE 4: 141:83491

REFERENCE 5: 140:350028

REFERENCE 6: 138:88690

REFERENCE 7: 138:86345

REFERENCE 8: 136:256811

REFERENCE 9: 134:53745

REFERENCE 10: 132:93329

=> d his

(FILE 'HOME' ENTERED AT 09:32:29 ON 27 SEP 2006)

FILE 'HCAPLUS' ENTERED AT 09:33:10 ON 27 SEP 2006

noble jarrell 27/09/2006

L1 1 US2006074125/PN OR (US2005-509074 OR WO2003-CA380 OR US2002-418

FILE 'REGISTRY' ENTERED AT 09:34:51 ON 27 SEP 2006

FILE 'HCAPLUS' ENTERED AT 09:34:51 ON 27 SEP 2006

L2 TRA L1 1- RN : 172 TERMS

FILE 'REGISTRY' ENTERED AT 09:34:51 ON 27 SEP 2006

L3 172 SEA L2  
L4 1 C26H27N3O3S2 AND L3  
L5 74 S2C3-NC4/ES AND L3  
L6 STR  
L7 13 L6  
L8 215 L6 FULL  
SAV TEM L8 QAZ074F0/A  
L9 51 L8 AND L3  
L10 STR L6  
L11 STR L10  
L12 STR L11  
L13 2 L10-12 SAM SUB=L8  
L14 0 L10-12 SAM CSS SUB=L8  
L15 3 L10-12 CSS FULL SUB=L8  
L16 212 L8 NOT L15

FILE 'HCAPLUS' ENTERED AT 10:21:52 ON 27 SEP 2006

L17 189 L16  
E CHEN G/AU  
L18 1185 E3,E15-16  
E CHEN GEN/AU  
L19 7 E3  
E CHEN GENHUI/AU  
L20 22 E3  
E LI J/AU  
L21 4638 E3-44  
E LI JIAN/AU  
L22 1610 E3,E108  
E LI JIANXIONG/AU  
L23 77 E3  
E WEBSTER J/AU  
L24 335 E3-29  
E WEBSTER JOHN/AU  
L25 189 E3-25  
E LI B/AU  
L26 873 E3-28  
E LI BIN/AU  
L27 1344 E3-23  
L28 4 L17 AND L1,L18-27  
L29 185 L17 NOT L28  
L30 180 L29 AND (PY<=2002 OR AY<=2002 OR PRY<=2002)  
L31 180 L29 AND (PD<=20020326 OR AD<=20020326 OR PRD<=20020326)  
L32 180 L30-31  
L33 35 L32 AND P/DT  
L34 12 L33 AND US/PC  
L35 12 L33 AND US/AC,PRC  
L36 12 L34-35  
L37 145 L32 NOT L33  
SEL AN 1-12  
L38 12 E1-24 AND L37

FILE 'REGISTRY' ENTERED AT 10:29:29 ON 27 SEP 2006

SAV TEM L15 QAZ074F1/A  
SAV TEM L16 QAZ074F2/A

FILE 'HCAPLUS' ENTERED AT 10:29:57 ON 27 SEP 2006

L39 24 L36,L38

FILE 'HCAOLD' ENTERED AT 10:30:08 ON 27 SEP 2006  
L40 45 L16  
SEL HIT RN

FILE 'REGISTRY' ENTERED AT 10:30:49 ON 27 SEP 2006  
L41 15 E25-39

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